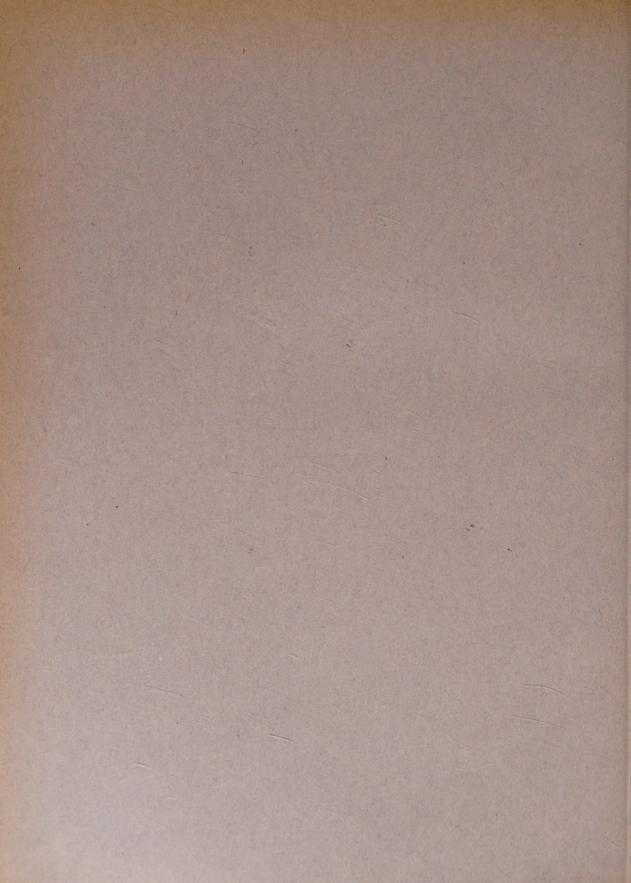


Commonwealth Bureau of Plant Breeding and Genetics

Plant Breeding Abstracts
INDEX
to Volume XVI

School of Agriculture Cambridge England



Plant Breeding Abstracts

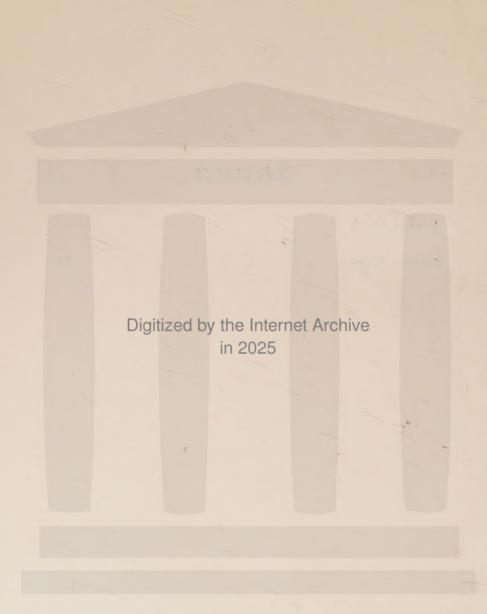
Published by the Commonwealth Bureau of Plant Breeding and Genetics, School of Agriculture Cambridge

Author and Subject Indexes to
Volume XVI
1946

Cambridge 1950

CONTENTS

AUTHOR	INDEX -	-	-	-	-	-	-	-	4	5
Subject	INDEX -	-	-	-	-	-	-	-	-	14



AUTHOR INDEX

to Plant Breeding Abstracts, Volume XVI

A. , Å., 275 A. ..., N., 65 A-n, G., 416 Abbe, L. B., 1868 Abbott, E. V., 1815 Abeele, M. van den, 398, 486 Aberdeen, J. E. C., 105 Aberg, E., 299 Abraham, A., 108 Abrams, L., p. 111 Acuna, J. B., 1326 Adams, J. B., 1317 Adema, J., 1888 Adriaens, L., 402 Adsuar, J., 1414 Afanasiev, M. M., 937-8 Afify, A., 851 Afzal, M., 1530 Ahlgren, G. H., 795 Ahmad, N., 66, 69-70, 552, 1077 Aitken, T. R., 732, 1500 Akeley, R. V., 343 Åkerberg, E., 1728 Åkerman, Å., 195, 276, 354, 1583, 1718 Albert, A. R., 827 Alcaraz Mira, E., 381, 388, 393, 395, Alderman, W. H., 889, 895, 940 Alexander, D. F., 172 Alfaro, A. C., 285 Alibert, H., 1095 Allington, W. B., 999 Alonso, R. E., 849 Alpatov, W. W., 142 Alper, C., 864 Altenburg, E., p. 247 Amargos, J. L., 481 Ammal, E. K. Janaki-, see Janaki-Ammal, E. K. Ananjeva, S. V., 410 Andersen, E. M., 483, 1924 Andersen, S., 313, 489 Anderson, D. C., 749 Anderson, E., 748, 757, 1736 Anderson, J. A., 1500 Anderson, W. S., 347, 856 Andersson, G., 418, 873, 1695 Andrés, J. M., 868 Andrews, H. N., 175 Anliker, J., 1914 Anodin, P., 725 Anós, A., 1114, p. 246 [Anson, R. R.], 1525 Arceneaux, G., 367, 369, 1817, 1820 Arghirescu, V., 1343 [Argles, G. K.], 1880 Armstrong, S. F., 31, 1038 Arndt, C. H., 840 Arnold, P. D. Dix, see Dix Arnold, P. D. Arny, A. C., 353 Arny, D. C., 771 Arroyo, R., p. 373 Artin, E., p. 246 Ashley, T. E., 352, 363

Asmous, V. C., 1119, 1608 Atabekova, A. I., 1457 Atchison, E., 1649 Atkins, I. M., 217, 226, 228, 249, 701 Atkinson, F. E., 1109 Attoe, O. J., 865 Atwood, S. S., 1294 Auerbach, C., 1024 Aufhammer, G., 1717 Ausemus, E. R., 206, 225, 241, 244, 257, 1703 Avanesjan, D. V. Ter-, see Ter-Avanesjan, D. V. Avdonin, N., 1200 Ayyangar, A. A. Krishnaswami, see Krishnaswami Ayyangar, A. A. Ayyangar, G. N. Rangaswami, see Rangaswami Ayyangar, G. N. Вавсоск, Е. В., 1923 Bacchi, O., 1401. Bachteev, see Bahteev Bahteev, F. H., 764, 1748 Bailey, J. S., 909 Bailey, L. H., 932 Bain, F. M., 74 Baker, J. L., 1058 Baker, J. R., 1481, p. 368 Baker, K. F., 1944 Baker, W. A., 761 Bakhteev, see Bahteev Bakshi, V. M., 1492 Balch, R. T., 366 Bald, J. G., 543, 1068 Baldwin, J. T. (jun.), 1866 Ballard, W. W., 1321 Bamberg, R. H., 223, 231, 234 Banfield, W. G., 1770 Banga, O., 1910 Bannan, M. W., 86, 1552 Barducci, T. Boza, see Boza Barducci, Barmore, M. A., 264 Barnard, C., 1549 Barratt, R. W., 1443, 1943 Barrett, M. F., 1402 Bartolucci, A., 1349 Barton, L. V., 1939 Barton-Wright, E. C., 593 Bateman, A. J., 1488 Batalla de Rodriguez, M. A., 190 Batt, R. F., 76 Batten, E. T., 926, 1409 Bauch, R., 680 Bauer, H., 652 Baver, L. D., 613 Bawden, F. C., 1037, 1524 Bayles, B. B., 196–7

Beckenbach, J. R., 984 Becker, R. B., 1784 Beekom, C. W. C. van, 1427, 1429 Beketovskii, D. N., 912 Belgovskaya, A. A. Prokofieva-, see Prokofieva-Belgovskaya, A. A. Bell, G. D. H., 1009 Bell, T. T., 1190 Belval, H., 274, 316–7, 321, 463 Bengtsson, G., 418 Benincasa, M., 1341 Bennett, C. W., 1339 Benoist, R., 326 Berg, S. O., 1204-6, 1232 Bergal, P., 300 Bergamin, J., 1855 Bergdoll, M. S., 1253 Berger, C. A., 467 Bergman, H. F., 943 Beri, R., 579 Berkley, E. E., p. 374 Berkner, F., 782 Bever, W. M., 184, 229 Beversluis, J. R., 953 Bigger, J. H., 1257 Billeaud, G. L., 1812 Binkley, A. M., 1931, 1940 Bisby, G. R., p. 250 Bisby, G. K., F.
Bishop, L. R., 43
Björling, K., 1315, 1336
Black, C. A., 359
Black, W., [521], 541 Blagoveščenskii, A. V., 1669 Blagoveshchenski, A. V., see Blagoveščenskii, A. V. Blair, D. S., 1559 Blake, M.A., 899, 913, 925, 1893, 1895-9 Blake, S. T., 53 Blaringhem, L., 409 Blood, P. T., 1236 Blunt, D. L., 33 Boekholt, K., 1604 Boewe, G. H., 1202 Bogoljubova, O. P., 908 Bohn, G. W., 478 Böhme, Müller-, see Müller-Böhme Boivin, A., 1628, 1672 Bolin, O., 1257 Bonner, D., 177 Bonnett, O. T., 1226 Bonney, V. R., 490 Bonvicini, M., 1576, p. 364 Boonstra, A. E. H. R., 1331, 1333 Bores, J. M. Sequeiros, see Sequeiros Bores, J. M. Borlaug, N. E. ,1774, 1809 Börner, C., 441 Borthwick, H. A., 1453 Boswell, V. R., 959-60, 1926 Bougy, E., 1833, 1840 Boughey, A. S., p. 250 Bourdouil, C. Sosa-, see Sosa-Bourdouil,

Baženova, M., 337

Beard, F. H., 869

Bazhenova, see Baženova

Beadle, G. W., 177, 1641

Beauchamp, C. E., 1329 Beck, F. V., p. 372

Bowman, F., 271 Boyce, S. W., 1004–5, 1475, 1479 Boyes, J. W., 1078 Boyle, W. S., 329 Boyle, W. S., 329
Boza Barducci, T., 68, 817, 1603
Brachet, J., [506], 1645
Brady, N. C., 433, 927
Brain, S. G., 351
Brandes, E. W., 364, 1327, 1339, 1812
Bremer, H., 1223-4, 1395
Brett, P. G. C., 1540
Bracher, D. D. 975 Brezhnev, D. D., 975-6 Brierley, P., 1933-4 Brierley, W. G., 936 Briggs, F. N., 728, 1265 Brimhall, B., 756 Brink, R. A., 475, 1738 Brouwer, W., 783 Brown, B. I., 921 [Brown, H. M.], 709 Brunson, A. M., 1253, 1745 Bryan, J. D., 104 Buchholz, J. T., 446 Buchinger, A., 1437
Buchinger, A., 1437
Buchli, M., 1268
Budhiraja, K. L., 579
Buhrer, E. M., 1797
Bukasov, S. M., 814, 819
Bullis, D. E., 1361 Burger, H., 954 Burkholder, C. L., 1398 Burkholder, P. R., 753, 1250 Burnett, L. C., 739 Burnham, C. R. 1261 Burns, W., 18 Buron, P., 1915 Burr, W. W., 128 Burton, G. W., 325, 1280-1 [Bussell, F. B.], 709 Bustarret, J., 191

C...., R., 1143
Cabral, A., 653
Caffera, R., 204, 762
Caffrey, M., 216
Calder, R. A., 1113
Caldwell, J. S., 690, 820, 916
Calvetl, E. L., 535
Calvet, R. Pérez, see Pérez Calvet, R.
Câmara, A., 210, 716, 1708
Cameron, C., 565
[Cameron, G. S.], 1525
Camp, A. F., 1902
Camp, W. H., 1865
Campbell, J. A., 1515
Camus, A., 315, 319–20, 324
Cannon, W. B., p. 245
Cárdenas, M., 1249
Cariss, H. G., 49
Carlson, J. W., 1777
Carlson, R. F., 424, 915
Carr, J. G., 21
Carsner, E., 1335, 1339
Carter, G. F., 757, 1438
Cartter, J. L., 993
Cartwright, W. B., 251, 1225, 1716
Carvajal, F., 1180
Carvalho Fontes, F., 1168
Casas, A. B., 346
Cash, L. C., 343
Castan, R., 489
Castle, W. E., 1620

Castro, D. de, 1168, 1921 Castro, D. R. de, 847 Catcheside, D. G., 19, 1022, 1029-30, [1486] Česnokov, P. G., 692 Cevallos Tovar, W., 781 Chaidze, I., 1861 Champion, H. G., 94–5 Chandraratna, M. F., 1088, 1528 Chang, S. C., 988 Chang Shien Ta, 477 Chang, Y. H., 1513-4, 1759, 1762 Chao Jen Jung, 213 Cha Lien-Fang, 1512 Chao, R. Y., 996 Chase, J. T., 341 Chaudhari, B. B., 592 Cheesman, E. E., [1091], 1545 Chen, H. K., 778 Chen Shih Kai, 306 Chen Wen Hsien, 426, 434 Cheney, R. H., 1377 Cheng, C. C., 595 Cheng Yao, Lin, see Lin Cheng Yao Cheo, M. T., 842 Chesnokov, see Česnokov Cherednichenko, A. F., 1867 Chester, K. S., 243, 1217 Cheu, S. P., 760 Cheu, S. P., 760
Chia Wan, Li., see Li Chia Wan
Chi Chu, Wang, see Wang Chi Chu
Chilton, S. J. P., 674, 1764
Chin, T. C., 717–8, 1706
Chinoy, J. J., 34
Ching, T. W., 713
Chitwood, B. G., 1797 Chow, J. K., 1760 Christensen, J. J., 1678 Christoff, A., 1892 Christoph, M., 1353 Chu, J., 1028 Chu, T. L., 777 Chwang, C. S., 718, 1706 Čižov, S. T., 474 Claassen, C. E., 411 Clapp, A. L., 1746 Clark, C. F., 1796 Clark, J. A., 268-9. Clark, J. A., 200-5. Clark, M., 792 Clark, W. E. Le Gros, see Le Gros Clark, W. E. Clarke, S. E., 1515 Clausen, R. T., 492, 683 Clayton, E. E., 382, 1357 Cochran, H. L., 872 [Cockerham, G.], 521 Coffman, F. A., 277 Coghill, R. D., 173 Coïc, Y., 116 [Coit, J. E.], 1879 Colby, A. S., 920 Colin, H., 1828 Colwell, W. E., 433, 927 Compton, L. E., 251, 1225, 1716 Conagin, A., 1819 Cook, D. B., 449 Coons, G. G., 1339 Coons, K. N., p. 371 Cooper, D. C., 475 Copeland, A. H., p. 246 Corbett, W., 1568 Core, E. L., p. 374 Corkill, L., 52 Cornelison, A. H., 365 Cornman, I., 1655

Cortes, M. Rafael, see Rafael Cortes, M. Cottrell-Dormer, W., 1108 Couch, J. F., 1234 Couchman, N. R. Fuggles-, see Fuggles-Couchman, N. R. Cour, L. F. La, see La Cour, L. F. Coutinho, L. de A., 1785 Cowley, F. J., 468 Cox, L. G., 919 Crandall, B. S., 432, 923 Crane, J. C., 849, 1326 Crane, M. B., 1031 Crang, A., 58 Crépin, C., 117 Crété, P., 435 Crnjaković, D., 1448 Croizat, L., 881 Cronquist, A., 918 Crooks, D. M., 874 Crim, R. F. et al, 1734 Cross, W. E., 371, 629, 854, 1330 Crouse, H., 651 Cruess, W. V., 1407 Cugnac, A. de, 274, 316–8, 320–2, 324 Culpepper, C. W., 473, 690, 820, 916 Currence, T. M., 978 Curtis, J. J., 1247 Cusset; F., p. 485 Cutler, G. H., 710, 1451 Cutter, V. M. (jun.), 1677 Cyrus, W. F., 491, 1951

D...., H. H., 561 D...., N. L., 1084 Dahlberg, G., 8 Dahms, R. G., 701 Danielli, J. F., 19, 1025, 1480, 1482 Danne, H. A., p. 249 Darevskaya, E. M., 764 Darlington, C. D., 22, 494, [506], [521], 1485, p. 248 Das Gupta, B., 557, 1535 [Davidson, H.], 1591–2 Davidson, O. W., 899 Davis, C. D., 1746 Davis, G. N., 1432, 1930 Davis, H. A., p. 374 Davis, M. B., 1559 Dawson, R. F., 389 Deakin, A., 1618 Decoux, L., 153, 375, 377, 1332, 1823, 1829-30, 1835-9, 1841, 1843-50 Dedek, J., 1834, 1842 Delaunay, A., 1628, 1672 Delbrück, M., 513 Deloffre, G., p. 249 Del Valle, G., 1002 Demerec, M., 1186, [1590–2] Demidenko, T. T., 1374 Depardon, L., 1915 Deriaz, R. E., 1483 Derick, R. A., 39 Dermen, H., 438 Deshpande, R. B., 82 Detjen, L. R., 917, 969 Dey, N. C., 514 Dicke, F. F., 1255 Dickson, A. D., 292, 299 Dickson, J. G., 1726, 1752 Dillewijn, C. van, 1816 Dillman, A. C., 1287 Dillon Ripley, S., 642 Dimitri, M. J., 879 Dionigi, A., 1707, 1858

Ditlevsen, E., 678
Dix Arnold, P. D., 1784
Dixon, H. H., 1650
Dobben, W. H. van, 1227-8, 1230
Dobzhansky, T., 1154, [1592], 1613, 1624
Dodds, K. S., 1102, 1561-2, 1737
Dodge, B. O., 169, 672
Dojes, R. P., 1751
Domingo, W. E., 403, 874
Doolittle, S. P., 479
Doortjes, J. A., 1881, 1885
Dorasami, L. S., 501, 519, 547
Dorman, C., 614
Dormer, W. Cottrell-, see Cottrell-Dormer, W.

Dorsey, M. J., 894 Doty, D. M., 1253, 1465 Draghetti, A., 1715 Drahorad, F., 695 Drain, B. D., 1908 Drar, M., p. 486 Driver, C. M., 1521, 1523 Dubinin, N. P., 1155, 1629 Dubois, J., p. 490 DuBuy, H. B., 1665 DuBuy, H. G., 635 [Ducker, H. C.], 1525 Dufrenoy, J., 673 Dugand, A., 1403-6, 1410-13 Duhan, K., 1396 Dumon, A. G., 1211 Duncan, R. E., 658 Dungan, G. H., 1226, 1257 Dunin, M. S., 1185 Dunlap, A. A., 1803 Dusseau, A., 387, 390 Dustman, R. B., 423

Dutt, N. L., 566

Dyson, E. J., 1

Džulaĭ, A. P., 304

Everley, R. T., 294 Eyster, H. C., 1248

Ezell, B. D., 1320

EARLE, F. R., 1247 Edgerton, C. W., 674 Edgerton, L. J., 899, 925 Ehle, H. Nilsson-, see Nilsson-Ehle, H. Ehrenberg, L., 1172–3, 1643 Eicke, R., 1688 Eigsti, O. J., 1671 Einset, J., 898 Elazari-Volcani, I., 422 Eldredge, J. C., 1956 Eliasson, S., 734, 832 El Khishen, A. A., 728 Ellenby, C., 59 Ellerton, S., 1046-7, 1055-6 Elliott, C., 293 Ellis, G. H., 1252 Elrod, J. M., 1782 Elvers, I., 1661 Emsweller, S. L., 465 Engledow, F., 1541 Ephrussi, B., [506], 1616 Epling, C., 1625 Ericsson, G., 699 Erikson, D., 88 Ernould, L., 153, 375, 1827 Ernst-Schwarzenbach, M., 133 Esbo, H., 1799 Evans, M., 803 [Evelyn, S. H.], 1525

FAES, H., 1417 Fagerlind, F., 160 [Fairchild, D.], 1878 Fan, F. R., 1571 Fang, C. T., 302, 1219, 1222 [Fano, U.], 1590-2 Fardy, A., 387, 766, p. 254 Farstad, C. W., 1502, 1510 Fassett, N. C., 450–51 Federer, W. T., 420 Federčuk, V., 333 Feekes, W., 1216, 1227-8, 1230 Feinbrun, N., 99 Fellows, H., 247 Feng, T. M., 1761 Fennell, J. L., 440, 1419, 1439 Fernandes, A., 646 Fernandes, C. T., 1920 Fernandez Valiela, M. V., 1798 Ferrand, 1375 Ferrary, R., 1348 Ferris, E. B., 352 Field, R. M., p. 245 [Fielding, W. L.], 1525 Fife, J. M., 1335 Fifield, C. C., 258-9 Filov, A., 974 Findley, W. M., p. 252 Finnemore, H., 1549 Finney, K. F., 264, 267 Fischbach, H., 490 Fish, S., 522 Fisher, M. H., 732 Fisher, W. I., 1430 Fitzpatrick, J. M., 1516 Flaksberger, K. A., 645 Fletcher, L., 81 Flory, W. S. (jun.), 1391, 1894 Flück, H., 413 Fogel, S., 1243-4 Follett-Smith, R. R., 564 Folsom, D., 340 Fontaine, T. D., 479 Ford, C. E., 578 Ford, E. B., 20 Ford, L. R., p. 246 Forlani, R., 1700 Foster, R. E., 1936 Fotidar, M. R., 48 Frandsen, K. J., 807, 1615 Frandsen, N. O., 1686 Franzke, C. J., 790, 793 Frazier, W. A., 986 Freisleben, R., 765 French, A. P., 911 French, M. H., 536 Friedberg, L., 140, 300 Friedberg, R., 278 Fries, N., 637, 1197 Fries, R. E., 431 Frimmel, F., 1350 Frisak, A., p. 112 Fröier, D., 694, 1721 Frolov, I., 457 Fromme, F. D., 727 Fryer, J. R., 537 Fuchs, W. H., 698 Fuggles-Couchman, N. R., 528, 1049 Fuke, Y., 305 Fuller, P., 527

GADEA LOUBRIEL, M., 1221 Gailey, F. B., 1675 Gandara, J. A., 1378 Ganguly, J. K., 559, 1547

Garcia Ráda, G., 68 Gardiner, J. G., 1019 Gardner, E. J., 1384-5 Garlan, P., 1607 Garman, H. R., 1939 Gärtner, K., 1351 Gattani, M. L., 1684 Gäumann, E., 163 Gause, G. F., 142 Gaviria, J. E., 852 [Gay, H.], 1591 Gaylord, F. C., 1433 Geddes, W. F., 260, 1703 Geerts, J. M., 1814 Geitler, L., 964 Gelin, O. E. V., 1359, 1454, 1459 Genchel, M., 699 Gentry, H. S., p. 250 Georgieva, R., 867 Gerassimova, E. N., 1867 Gericke, S., 860 Germek, E. B., 1758 Gersh, E. S., 1616 Gerstel, D. U., 396-7 Gertz, O., 1421 Gescher, N. von, 1783 Ghose, R. L. M., 556-7, 1534-5 Ghosh, B. N., 1064 Ghosh, S. K., 85 Giddings, N. J., 1337–8 Gilbert, S. M., 78 Giles, N. H. (jun.), 1250, 1673 Gilly, C. L., 1735 Ginneken, P. J. H. van, 1334, 1825 Giovannelli, B., 1573 Giovannini, J. M., 705 Glick, D., 1262 Goidsenhoven, W. van, 1830, 1838-9, Goldschmidt, R. B., 136, 1630-1 Goluško, I. L., 906 Goodman, G. J. R., 1739 Goodspeed, T. H., 862, 1345-7 Goossens, A. P., 50 Gopala Iyengar, K., 519 Gorham, P. G., 1386 Gorham, P. R., 1554 Gornik, R., 1342 Gouaux, C. B., 370, 1818, 1821 Gough, H. C., p. 252 Gould, F. W., 330 Govande, G. K., 1531 Gowen, J. W., 1149 Graiff, G. L., 1699, 1702 Graner, E. A., 282, 1733 Granhall, I., 354, 1210 Gravatt, G. F., 923 Graves, A. H., 924 Green, J. M., 284 Greenway, P. J., 1098 Grieben, H., 875 Gries, G. A., 110 Griesinger, R., 688 Grimball, P. C., 1434 Grimes, C. W., p. 366 [Griswold, H. B.], 1880 Gros Clark, W. E. Le, see Le Gros Clark, W. E. Groszmann, A., 1801 Groszmann, H. M., 586 Grottodden, O., 987 Grünberg, I. P., p. 374 Guba, E. F., 983 Gudjónsson, G., 1869 Guerreiro, M. G., 1903, 1920

Guha, M. P., 584, 1537 Gulati, A. N., 66 Gumbel, E. J., 111 Gunther, F. A., 189 Gupta, B., Das, see Das Gupta, B. Gupta, J. C., Sen. see Sen Gupta, J. C. Gupta, P. S., 45 Gustafsson, Å.; 437, 1150, 1170, 1260, 1416, 1657, 1771 Györffy, B., 1614, 1690–2, 1857, 1941

HABAR, E. S., 835, 1001 Hadorn, E., 1610 Hads, H. L., 720 Hagerup, O., 150 Håkansson, A., 1237, 1275, 1416 Haldane, J. B. S., [506], 1033 Halifman, I. A., 1144 Ham, W. E., 1291 Hamilton, D. G., 39 Hamilton, J. W., 703, 1270 Hancock, H. A., 553 Hansen, E., 903 Hansen, H. N., 1944 Hansen, H. P., 1687, 1689 Hansen, N. E., 691, 892 Hansing, E. D., 227, 279, 1724–5 Hanson, E. W., 224, 1703 Haque, A., 1104 Haralson, F. E., 940 Hardison, J. R., 312, 323 Harland, S. C., 494, [506] Harmon, F. N., 945 [Harper, A. S.], 1525 Harper, R. E., 1953 Harper, R. H., 459 Harris, R. H., 261, 273, 724, 1229 Hart, H., 235 Harter, L. L., 1461 Hartman, H., 929 Hartman, J. D., 1433 Haskell, R. J., 960, 1947 Hastings, A., 1569 Hawkes, J. G., 1069, 1521, 1523 Hayes, H. K., 280, 296, 1246, 1611, 1731 Hebert, L. P., 1818, 1821 Hedayetullah, S., 1064 Heeger, E. F., 1863 Heggestad, H. E., 863 Heidenthal, G., 1147 Heimburger, C. C., 456 Henderson, R. G., 1851 Hendrix, J. W., 986 Henney, H. J., 129 Henson, P. R., 994 L'Héritier, P., [506], 1477 Hertzman, N., 1303 Heusser, C., 394 Heyn, F. A., 1626 Heyne, E. G., 212, 219, 277, 279, 1208, 1724–5, 1746 Higbee, E. C., 1198, 1376 Higgins, L. J., 1236 Hildebrand, E. M., 164 Hill, A. G., 12 Hill, D. D., 1361 Hill, H. D., 311 Hinton, T., 149 Hintzsche, E. von, 1640 Hlynka, K., 530 Hoare, A. H., p. 375 Hodge, W. H., 1379 [Hodgson, R. W.], 1880

Hofmeyr, J. D. J., 90

Hohl, L. A., 1407 Hollar, V. E., 835 Hollande, A.-Ch., 185 Hollande, G., 185 Hollowell, E. A., 310, 331, 1295 Holme, R. V., 568 Holton, C. S., 230, 1220 Holubinsky, I. N., 400 Honig, P. (Editor), p. 372 Hopkins, R. H., 27 Horošailov, N. G., 799-800 Horovitz, N., 704 Horowitz, N. H., 148, 177 Horsfall, J. G., 110 L'Hote, H. J., 1138 Hough, L. F., 905 Houlahan, M. B., 1191 Houston, B. R., 356, 358 Hovanitz, W., 1158 Howard, F. L., 483 Howard, W. L., p. 363 Howlett, F. E., 900 Hoyle, B. J., 962 Hoyle, S. S., 525 Hsu Kuan Jen, 1512 Hsü Shao Hua, 421 Hsu, T. S., 1763 Hu, C. L., 348, 350 Hua, H. N., 480 Huber, L. L., 290 Hudson, P. S., 54, 497, p. 365 Hughes, 1325 Hughes, H. M., 589 Hugon de Scoeux, F., 1477 Hull, F. H., 1242 Hultén, E., 1810 Humlum, J., p. 111 Humphrey, L. M., 1807 Hunter, H., 30, 1058 Hurt, E. F., 1506 Husås, Ø., 1462 Husfeld, B., 939, 941 Hutchins, M. C., 690 Hutchinson, J. B., 549, 1073, 1529, 1532 Hutchison, C. B., (Editor), p. 487 Hutton, E. M., 544, 1106 Huxley, J., 17, [506]

Hutchison, C. B., (Editor), p. 487 Hutchison, E. M., 544, 1106 Huxley, J., 17, [506] Hwang Shui Lwen, 877 Hwang Tsung Chen, 689, 973 Hyland, H. L., 1299

IHSAN-UR-RAHMAN Khan, see Khan, Ihsan-Ur-Rahman Ikeda, T., 253
Immer, F. R., 1115
Ing, E. G., 499
Ingold, C. T., 1489
Ingram, C., 1556
Irving, G. W. (jun.), 479
Irwin, M. R., 1476
Isbell, C. L., 970, 1445
Işmen, H., 1395
Ivancenko, D., 1834, 1842
Ivanoff, S. S., 466, 1201
Ivanov, see Ivanoff
Iyengar, K., Gopala, see Gopala Iyengar, K.
Iyer, P. V. Krishna, see Krishna Iyer, P. V.
Izquierdo Tamayo, A., 388

JACK, H. A., p. 247 Jackson, H. S., 1036 Jacobs, M. B. (Editor), p. 361

Jaeger, P., 155 Jakobsson, J., 1718 Jakovuk, A. S., 378 Jakuševa, E. I., 794 Jakuševskii, E. S., 774-5 [Jameson, J. D.], 1525 Janaki-Ammal, E. K., 22, p. 248 Jasny, N., p. 488 Jayaweera, D. M. A., 1548 Jeffrey, E. C., 655 Jehle, R. A., 812 Jen Jung Chao, see Chao Jen Jung [Jenkin, T. J.], 521 Jenkins, M. T., 293, 745-6, 750, 758, 1255 Jensen, H., 949 Jensen, L. A., 1747 Jiménez, M. A., 1407 Johann, H., 292 Johansson, E., 935 Johnson, B. L., 327, 791 Johnson, I. J., 803, 1300 Johnson, J., 865 Johnson, J. A., 272 Johnson, L. P. V., 24, 588, 1103, 1566-7 Johnson, M. J., 1675 Johnson, T., 1501 Johnsson, H., 443-4, 1422, 1918 Johnston, C. O., 232, 245, 277 Jones, C. R., 1499 Jones, D. F., 286, 752 Jones, E. T., 250 Jones, F. R., 796 Jones, G. N., p. 375 Jones, H. A., 465, 1920, 1932 Jones, M. A., 188 Judkins, W. P., 1722 Julander, O., 786 Jurion, F., 349 KADAM, B. S., 46, 61, 592 Kameraz, A. Ja., 815-6 Kämpfer, M., 1927 Kanér, R., 1415 Kangas, J. T., 833 Kaniskin, M. F., 848 Kar, B. K., 1495 Karnauhov, I. P., 769 Karper, R. E., 776, 1272, 1283, 1755 Kartman, L., 115 Kasparjan, A. S., 1802

Jacobson, G., 734

Kassanis, B., 1524 Katinskaja, Ju. K., 934 [Kaufmann, B. P.], 1590-2 Kearney, T. H., p. 371 Keegan, R., 529 Keitt, G. W., 1676 Keller, A. G., 1328 Keller, B. A., 1159 Keller, W., 787 Kelman, M., 656 Kemmer, E., 1393-4 Kemp, W. B., 747 Kempthorne, O., 7 Kendall, M. G., p. 245 Keng Yi-Li, 1288 Kennedy, T. L., 504–5 Kern, E. M., 864 Kessler, W., 670 Keyworth, W. G., 870 Khan, Ihsan-Ur.-Rahman, 1530 Khan, Shame-ul-Islam, 823 Khishen, A. A. El, see El Khishen, A. A.

Kichunov, see Kičunov Kičunov, N. I., 933 Kiellander, C. L., 1273 Kieser, M., 58, 104 Kiesselbach, T. A., 411, 751 Kikuta, K., 986 [King, H. E.], 1525 Kiričenko, K. S., 304 Kirpičnikov, see Kirpitchnikov Kirpitchnikov, V. S., 644 Kirste, A., 1794 Kisfaludy, M.v., 1352 Kjaer, A., 664 Klages, K. H., 789 Kleiner, E., 1633 Kneen, E., 720 Knight, R. L., 1074, [1525] Knjaginičev, M. I., 722, 733 Knowles, D., 987 Knudsen, V. E., 1316 Knyaginechev, see Knjaginičev Kobel, F., 1876, 1882, 1914 Koehler, B., [709], 1226, 1257 Koenig, P., 379 Köhler, E., 829, 831, 1688 Kong, Pai-Chieh, 1288 Koo, W. F., 1571 Kosenko, I. S., 304 Kostina, K., 907 Kostoff, D., 384, 391, 867, 1354, p. 374 Kostyuchenko, N. A., 744 Koverga, A., 339 Kramer, H. H., 1382 Krantz, F. A., 1791 Krasnjuk, A. A., 741 Krasochkin, see Krasočkin Krasockin, V. T., 805, 859 Krešer, G. K., 684 Kreitlow, K. W., 1773 Kremer, J. C., 460 Kreutzer, W. A., 1940 Krawson, C. E. 1234 Krewson, C. F., 1234 Krickl, M., 1304 Krijthe, E., 667 Krishna Iyer, P. V., 2 Krishna Rao, C. R., 3 Krishnaswami Ayyangar, A. A., 4 Kristensen, R. K., 1795 Krjukov, F. A., 890 Krotkov, G., 415 Krug, C. A., 1854-5 Kuan Jen Hsu, see Hsu Kuan Jen Kuang, H. H., 1513-4, 1759, 1761-2 Kundu, B. C., p. 369 [Kuilman, L. W.], 383 Kumar, L. S. S., 107–8 Kung, P., 780 Kurgatnikov, M. M., 1000 LA COUR, L. F., 1485 Laidlaw, H. C., 524 [Lamb, C. A.], 709 Lamm, R., 742 [Lammerts, W. E.], 1880 1303, 1446–7, 1456 Landes, M. L., 1386 Landon, R. H., 936

Lamprecht, H., 488, 804, 1160-1, 1207, Lang, A. L., 1257 Langham, D. G., 404–5, 1363–72 Langlet, O., 952 Lantz, H. L., 1877 Larmour, W. T., 1042, 1504 Larsen, C. Syrach, see Syrach Larsen, C. Larsen, G.-H., 427 Larson, R. E., 978 Larson, R. H., 827, 830, 1932 Larter, L. N. H., 14 Laubscher, F. X., 1062 Laude, H. H., 220, 222 Laughnan, J. R., 1251 Lauritzen, J. I., 1327 Lazar, O., 1832 Lazarev, P. P., p. 110 Lea, D. E., 1022, 1029-30, [1486] Leandri, J., 482 Lebedeff, G. A., 1946 Leben, C. C., 1676 LeClerg, E. L., 1305, 1309 Lederberg, J., 1679 Leding, A. R., 843 Lee Tsung Lê, 689 Lee You Kai, 877 Lefebvre, C. L., 485, 1757 Lefèvre, J., 1348 Leggett, W. F., p. 112, p. 490 Le Gros Clark, W. E. (Editor), p. 362 Lehnovič, V. S., 825 Lehotzky, P.v., 647 Lehoult, Y., 1628, 1672 Leissner, G. Nilsson-, see Nilsson-Leissner, G. Leith, B. D., 738 Lejeune, A. J., 524, 1509 Lek, H. A. A. van der, 667 Lemos-Pereira, A. de, 653 Lepigre, A.-L., 1307 Lesley, J. W., 1440 Lesley, M., 1440 Leslie, W. R., 1399, 1560, 1889 Levan, A., 154, 376, 511, 1177-8, 1648 Levine, M., 236, 654, 1174, 1428 Levy, F., 102 Lewin, C. J., 1017 Lewis, H., 1625 Li, C. H., 713, 1269 Li Chia Wan, 730 Li, H. W., 713, 719, 1212, 1269 Li, W. C., 1760 Liechti, A., 1637 Lien Fang Chao, see Chao Lien Fang Lih Ling, see Ling Lih Lin, C. Y., 778 Lin Chen Yao, 307 Lin Cheng Yao, 121, 306 Lindberg, J. E., 1718 Lindegren, C. C., 175, 179–80, 676, 679, 1192, 1622 Lindegren, G., 179-80, 676 Lindquist, B., 1922 Lindsay, M. A., 813 Lineweaver, H., 1928 Ling Lih, 671 Lipšic, S. Ju., 461-2 Lisicyn, P., 333 Little, R. D., 882 Little, T. M., 1932 Liu, T. T., 779, 965 Ljung, E. W., 132 Lockwood, J. F., p. 376 Lodkina, M. M., 1344 Loe, L., 632 Loeb, L., p. 107 Loegering, W. Q., 237 Løfting, E. C. L., 1425 Lombard, P. M., 1796 Long, T. E., 987 Lopes, A. Queiroz, see Queiroz Lopes, A. Lott, R. V., 668

Loubriel, M. Gadea, see Gadea Loubriel. Löve, A., 1179, 1660 Löve, D., 1179, 1659–60 Love, R. M., 715, 1775 Lowig, E., 797 Lowman, M. S., 1466 Lowson, J. M., p. 369 Lucas, G. B., 674 Lutman, B. F., 1189 Lyerly, P. J., 1956 Lynch, S. J., 1901 Lysenko, T., 1870 Lytton, L. R., 843 Ma, R. H., 768 McAtee, W. L., 143 McBain, J. W., 1264 McBeth, C. W., 700 McCann, L. P., 406 [McClintock, B.], 1590-2 McCrory, S. A., 1925 MacDaniels, L. H., 922 [MacDonald, D.], 1525 McDowell, C. H., 617 McFadden, E. S., 209 McIlroy, G. G., 991 Macindoe, S. L., 32, 1050 McIntosh, A. E. S., 72, 562 McIntosh, T. P., p. 252 M'Intosh, T. P., 55 McKee, R., 1297, 1299, 1784 McKeon, C. J., 42 Mackie, J. R., 11 McKinney, H. H., 1357 [McKinstry, A. H.], 1525 McLoughlin, D. E., 37 McM...., A., 1079 McMaster, P. G. W., 1544 McNair, J. B., 641 McRae, L., 955 McVeigh, I., 753, 1250 Madson, B. A., 1265 Magie, R. O., 871 Magoon, C. A., 943 Magruder, R., 990, 1449 Maheschwani, P., 25 Maheshwari, P., 508 Maliani, C., 1743 Mangelsdorf, P. C., p. 489 Mann, H. H., 1043 Mann, L. K., 962 Manunta, C., 1719 Marsh, F. L., p. 247 Martens, P., 375 Martin, A. C., 1668 Martin, H., 76 Martin, J. H., 303 Martin, W. E., 1378 Martinez, M., 452-4 Marušev, A. I., 736 Marzell, H., 880 Mason, H. L., 455 Mastenbroek, C., 1685 Mather, K., 593 Matrone, G., 1252 Matz, J., 1327 Mauri, N., 430 Maximov, N. A., 509 May, C., 445

Mayeaux, L. C. (jun.), 1817, 1820 Mayer, R., 712, 1117, 1325

Mayo, J. K., 1111 Mayr, E., 144

Mazoti, L. B., 755

Medawar, P. B. (Editor), p. 362 Medvedeva, G. B., 1215 Medvedev, P. F., 844, 885 Meehan, F., 1727 Mehta, C. R., 580 Mehta, T. P., 580 Mehta, T. F., 1546 Meier, K., 1390 Meister, N. G., 714 Meitès, M., 338 Melchers, L. E., 279 Melhus, I. E., 1735, 1739 Mendes, A. J. T., 1358, 1856 Mendes, J. E. T., 1855 Mendes, P. T., 876 Méneret, G., 712, 1117, 1325 Menger, K., p. 246 Meredith, W. O. S., 1061 Merritt, P. P., 262, 1703 Meyer, B. S., 445 Meyer, J. R., 151, 660 Meyer, K., 1720 Middleton, G. K., 433 Millan, R., 972 Miller, R., 972 Miller, C. C., 1271 Miller, M. F., 1138 Miller, R. W. R., 554 [Miller, W. L.], 1525 Millikan, C. R., 71
Millington, A. J., 1496
Minder, W., 1637
Miny, M. P., 399 Mira, E. Alcaraz, see Alcaraz Mira, E. Miranda, F., 190
Miranda, H. S., 1758
Mirov, N. T., 448
Mirsky, A. E., 1163 Mitchell, H. K., 177, 1191 Mitchell, H. K., 177, 1191
Mitra, A. K., 45
Moberly, G. S., 560
[Mohr, O. L.], 506
Molostov, A. S., 784
Montelaro, J., 1444, 1954
Moon, H. H., 473
Moore, M. B., 280
Moore, R. C., 1886, 1913
Moore, R. J., 1551, 1553
Moraes, L. T., 1819
Morales I. Rivera. see Riv. Morales, I. Rivera, see Rivera Morales, I. Moran, T., 1499 Morgan, T. H., 1647 Morozov, V. K., 407-8 Morris, H. E., 937-8 Morris, H. J., 1928 Morris, V. H., 214 Moščenko, S. I., 826 Moss, E. G., 382 Mowry, H., 1902 Moyer, A. J., 173 Moyer, D., 753 Muenscher, W. C., 921 Mukerji, B., 85 Muller, C. H., 1420 Muller, H. J., 1612 Müller-Böhme, 345 Mulvey, R. R., 1235 Mungomery, R. W., 1085 Munn, M. T., 1452

Müntzing, A., 281, [506], 1182, 1238-9,

1274, 1730 Müntzing, G., 1182 Murbeck, S., 1151 Murphy, E., 1793 Murphy, H. C., 277, 739, 1727 Murrill, W. A., 436 Muskett, A. E., 535 Mustafa, A. M.,1100 Mustard, M. J., 1901 Myers, C. H., 1430 Myers, W. M., 311, 1278, 1773 Mynbaev, K., 887

Naghski, J., 1234 Naidu, M., 1492 Nanayakkara, K. D. S. S., 1088 Nanda, K. K., 34 [Nanton, W. R. E.], 1525 Nath, B., 63 Narasimha Swamy, R. L., 576, 1090 Nash, H. A., 1253 Navashin, M. S., 1867 Neal, N. P., 1738 Neal, W. M., 1784 Neely, J. W., 351 Neergaard, P., p. 251 Neergaard, F., p. 251 Negrulj, A. M., 942 Nelson, C. E., 1292 Neuweiler, E., 1319 Newcomer, E. H., 447, 1639 Newton, M., 36, 1061, 1501 Nichols-Roy, S., 1407 Nickerson, D., 1666 [Nicol, J.], 1091 Nicolaisen, W., 1574 Nielsen, E. L., 314, 1276 Niggl, L., 1765 [Nijholt, J. A.], 383 Nilsson, F., 956, 1387 Nilsson-Ehle, H., 763 Nilsson-Leissner, G., 309 Nissen, Ö., 1277 Nixon, R. W., 928 Noguti, Y., 1175 Noll, A., 1714 Nolla, J. A. B., 1356 Nordenskiöld, H., 1279 Novák, J., 1148, 1834 Novikoff, A. B., 640 Nozzolini, V., 1663 Nutman, P. S., 1066 Nyberg, C., 681, 1682-3 Nygren, A., 1170, 1284

Obaa, G. I., 980 Obaton, F., 362 Oberle, G. D., 439 Ochoa, L., 484 Odland, M. L., 1362 Ogden, W. B., 865 O'Kelly, J. F., 352 Oldaker, C. E. W., 543 Olive, L. S., 1757 Olmsted, C. E., 328 Olson, B. H., 1675 Olson, P. J., 1609 Omljčenko, V. K., 737 Oort, A. J. P., 1203 Opitz, K., 845 Orton, C. R., 1133 Östergren, G., 152, 1172, 1286, 1729, Osvald, H., p. 253 Overcash, J. P., 1003 Owen, F. V., 858 Özkan, 1223-4

PADDOCK, E. F., 1654 Pai Cheih Kong, see Kong Pai Chieh Painter, R. H., 252 Pal, B. P., 10 Palma, S. E., 141 Palmgren, O., 1166 Pan, C. L., 780 Pančenko, N. P., 665 Panchenko, see Pančenko Pantulu, J. V., 1097 Pao, W. K., 713, 719, 1212, 1269 Papendorf, M. C., 50 Pardo Pascual, M., 846 Parker, J. H., 1750 Parker, M. W., 1453 Parodi, L. R., 1753 Parry, J. W., p. 488 Parsons, T. H., 1565 Patch, L. H., 294 Pascual, M. Pardo see Pardo Pascual, Passecker, F., 1392, 1397 Passecker, F., 1392, 139.
Patel, J. S., 556-7, 1534
Patel, S. M., 592
Patnakar, V. K., 592
Paukšens, J., 831
Pavate, V., 64
Pavlova, N. M., 931
Pagarce, S. C. 5 Pearce, S. C., 5 [Pearson, E. O.], 1525 [Peat, J. E.], 1525 Pedrosa, R., 853 Peebles, R. H., p. 371 Pence, R. O., 255 Pennington, C., 401 Pereira, A. de Lemos- see Lemos-Pereira, A. de Pérez Calvet, R., 594, p. 246 Perlova, R. L., 1306, 1792 Perry, B. A., 1860 Perry, H. S., 287 Peshkoff, M. A., 512 Peters, J. J., 1646 Peterson, L. C., 1314 Peterson, R. F., 524 Petrov, 600 Peturson, B., 36, 1061 Phillips, H. M., 1642 Phillips, W. H., 969 Phinney, B. O., 1741
Pigman, W. W. (Editor), p. 368
Pissarev, V. E., 1698, 1749
Pittendrigh, C. S., 1102 Piza, S. de Toledo (jun.), 1623 Plank, J. E. van der, 1070, 1522 Platt, A. W., 1502, 1510 Plattner, P. A., 1674 [Ploeg, J. van der], 383 Poddubnaja-Arnoljdi, V. A., 1213, 1344, 1749 Poddubnaya-Arnoldi, V., see Poddubnaja-Arnoljdi, V. A. Podlipenko, F., 1308
Poehlman, J. M., 271, [709]
Poliansky, V. I., 643
Pollard, A., 58, 104 Pollister, A. W., 1163 Ponomarenko, F. A., 721 Pontecorvo, G., 507 Poole, C. F., 1434 Pope, M. N., 298, 767 Pope, O. A., 1323 Popravko, A. V., 784 Porte, W. S., 1441 Porter, C. R., 1746

Porter, J. W., 1738 Posnette, A. F., 75, 573-4, [1091] Potapov, A., 1912 Poulson, D. F., 134 [Pound, F. J.], 1091 Pound, G. S., 1937 Powers, L., 419 Prado, F. V., 361 Prakken, R., 1178, 1729 Pratt, R., 673 [Prentice, A. N.], 1525 Priebus, K., 1301 Prince, F. S., 1236 Probst, A. H., 487, 1451 Prokofieva-Belgovskaya, A. A., 1651 Prokošev, S. M., 659 Pryor, D. E., 472, 1948 Psareva, E. N., 378 Pushkarnath, 57 Putnam, H. O., 270 QUEIROZ LOPES, A., 648, 663 Quinby, J. R., 776, 1272, 1283, 1755 Quintanilha, A., 682 Quisenberry, K. S., 232 RABAK, F., 1360 Rabinowitch, E. I., p. 370 Ráda, G. García, see García Ráda, G. Rafael Cortes, M., 1370 Raghavendra Rao, M. R., 1110 Rajan, S. S., 1484 Raleigh, G. J., 971 Ramanujam, S., 10 Ramiah, K., 63 Randall, T. E., 967 Randolph, L. F., 748, 1252 Rands, R. D., 884 Ranganathan, B., 516-7, 1491 Rao, C. R. Krishna, see Krishna Rao, C.R. Rao, J. Virabhadra, see Virabhadra Rao, J. ao. K., Visweswara, see Visweswara Rao, K., Rao, K. Rao, M. R. Raghavendra, see Raghaverdra Rao, M. R. Rao, Y., Sundar, see Sundar Rao, Y. Raper, K. B., 172, p. 251 Raphael, T. D., 100, 590–1 Rave, 380 Rave, L., 379, 1340 Ray, C. (jun.), 357 Ray, W. W., 1806 Rayner, R. W., 56 Razumov, N. I., 818 Reach, J. R., 1465 Rebour, H., 429 Reddick, D., 1314 Redfearn, C., 528 Reed, E. W., 265 Reed, G. M., 1196 Reestman, A. J., 1318 Reid, W. D., 1569-70 Reilly, H. C., 165 Reinhold, J., 1431 Reiss, F., 1258 Reitz, L. P., 207, 1208 Resende, F., 649, 653, 1026 Ressovsky, N. W. Timoféeff-, see Timoféeff-Ressovsky, N. W. Revell, S. H., 1952 Revilla, V. A., 240 Reyes, C. A., 850 Rhind, D., p. 373

Rhoades, H. E., 1195 Richards, M. C., 1443, 1943 Richards, O. W., 168 Riche, F. G. H. le, 1101 Richens, R. H., p. 254, p. 365 Richey, F. D., 135, 283 Rick, C. M., 476, 967, 981, 1942 Ricker, P. L., 1781 Riehm, E., 1120 Rife, D. C., 288 Righter, F. I., 1424, 1916 Rigoni, V. A., 297 Riner, M. E., 980, Rinke, E. H., 336, 1246, 1731 Ripley, S. Dillon, see Dillon Ripley, S. Ris, H., 650-1, 1163 Ritchey, G. E., 1299, 1784 Rivera Morales, I., 190 Rizet, G., 176 Roberts, I., 1322 Roberts, R. H., 901–2 Roberts, T. C., 254, 256 Robertson, D. W., 203 Robertson, W. M., 97 Robertson, J. F., 40 Robinson, J. L., 1258 Robson, J. M., 1024 Roddan, G. M., 44 Rodenhiser, H. A., 230, 232-3, 1220 Rodgers, A. D. III, p. 109 Rodrigues, A., 891 Rodriguez, M., 1372 Rodriguez, M. A., Batalla de, see Batalla de Rodriguez, M. A. Rodriguez Sardiña, J., 193 Rodriguez, V. J., 1713 Roemer, T., 669, 731 Rogler, G. A., 1774 Roland, G., 1829, 1831, 1836–7, 1847 Rollins, C. R., 1383 Rollins, R. C., 417, 886 Rondoni, P., 1636 Rose, R. E., 52 Rosen, G. von, 1167, 1644 Rosenberg, O., 1171 Ross, A. F., 1800 Ross, J. G., 1078 Ross, R., 74 Rössger, W., 630 Rossi, U., 392, p. 253 Rothgeb, R. G., 747 Roubaix, J. de, 1832 [Rounds, M. B.], 1878 Roy, S. Nichols-, see Nichols-Roy, S. Ru, S. K., 777 Ruch, F., 1165 Rudorf, W., 194, 1884 Ruehle, G. D., 1900 Ruhland, W., 670 Ruiz, O. M., 178, 182–3 Russell, E. S., p. 108 [Ruston, F. D.], 1525 Ruttle, M. L., 1466 Ryan, F. J., 1679 Rygg, G. L., 1905 Ryžkov, V. L., 186 S...., B. G. L., 1012 S...., E. H. G., 106 S..., G., 1808 Sabnis, T. S., 1546 Safronov, A., 1218 Sager, R., 583 Šain, S., 464 Saint-Hilaire, A. de, p. 487

[Salaman, M. G.], 1486 Salaman, R. N., 1071 Sallans, B. J., 1052 Salmon, E. S., 80 Salmon, S. C., 199, 221 Sampaio, S. C., 1819 Sampath, S., 1484 Sanders, F. K., 1481 Sankaram, A., 1511 Sankaran, R., 62 Sansom, T. K., 37, 1044 Sansome, E., 26 Sansome, E. R., 515, 1032, 1490 [1590-2]Santos, A., 1785 Sanyal, A. T., 1534 Saran, A. B., 532-3 Sardiña, J. Rodriguez, see Rodriguez Sardiña, J. Sardiña, J. Sema. R., Vasudeva, see Vasudeva Sarma, R., Sass, J. É., 284, 289, 756, 1740 Saura, F., 868 Sawkins, D. T., 6 Sax, K., 1146 Sčerbakov, A. P., 211 Schad, C., 712, 1117, 1325 Schade, A. L., 1193-4 Schaeffer, E. W., 1147 Schatz, A., 165-6 Schaub, I. O., 613 Scheffé, H., 112 Schiemann, E., 1575, 1712 Schlehuber, A. M., 372 Schlösser, L.-A., 1605 Schmieder, M. v., 1765 Schmuck, A., 138 Schröderheim, J., 437 [Schroeder, C. A.], 1879–80 Schultes, R. E., 1380 Schultz, E. F. (jun.), 433 Schultz, E. S., 343 Schultz, H., 171 Schultz, J., 1647 Schulz, F., 1393 Schuster, G. L., 693 Schütze, R., 1157 Schwarzenbach, M. Ernst-, see Ernst-Schwarzenbach, M. Scott, D. H., 478, 980, 1436 Scott, L. B., 788, 1822 Scott, W. O., 1746 Scully, N. J., 1453 Seale, C. C., 569 Sears, E. R., 1214 Séguéla, J. M., 1705 Seiglinger, J. B., 1754 Seljuto, M. I., 912 Semeniuk, G., 1739 Sen, N. K., 531 Seneviratne, L. J. de S., 500 Sen Gupta, J. C., 531 Sequeiros Bores, J. M., 866 Serra, J. A., 634, 646, 648, 662–3, 1662 Seshachar, B. R., 1027 Sessous, G., 992 Šestakov, V. E., 706 Shaffer, J. J. (jun.), 364 Shame-ul-Islam, Khan, see Khan, Shame-ul-Islam Shands, H. L., 738 Shands, R. G., 248 Shao Hua Hsü, see Hsü Shao Hua Shapiro, N. I., 1617

Sharbakoff, C. D., 707 Sharman, B. C., 1709 Shaw, J. K., 893 Shay, J. R., 1676 Shellenberger, J. A., 266 Sherwin, H. S., 485, 1757 Shevkenek, W., 1515 Shewkenek, W., 1915 Shien Ta Chang, see Chang Shien Ta Shih Kai Chen, see Chen Shih Kai Shilova, S. N., 977 Shimoya, C., 1864 Shirky, S. B., 1138 Shorrock, R. W., 1112 Shui Lwen Hwang, see Hwang Shui Shull, G. H., 1732 Siang Yin Ko, 1726 Siang Yu Tang, see Tang Siang Yu Siao, F., 595 Šibaev, P. N., 772 Sibbitt, L. D., 273, 724 Siddappa, G. S., 1100 Sievers, A. F., 1198, 1376, 1466 Şikka, S. M., 1530 Sikka, S. M., 1530
Silow, R. A., 548, 1076
Simlote, K. M., 1527
Simmonds, N. W., 1562, 1737
Simmonds, P. M., 1052
Simon, E. C., 1813
Simon, M., 377, 1332, 1823, 1829–31, 1835–9, 1841, 1943–50 Simonet, M., 322, 766 Simonneau, P., 428 Simpson, G. G., 114, 145, p. 485 Simpson, J. I., 341 Singh, S. P., 1484 Singh, S. P., 1484 Singleton, H. P., 1292 Singleton, W. R., 1464, 1955 Sinnott, E. W., 471 Sinskaya, E. N., 1290 Sirks, M. J., [506], 1619 Sivrina, A. N., 982 Skaare, S., 1293 Skovsted, A., 677, 838 Skrepinskiĭ, A. I., 335 Slate, G. L., 930, 1408, 1906 Slipčenko, E. K., 784 Smith, D. C., 1276 Smith, F. F., 1933 Smith, G., p. 373 Smith, G. M., 1465 Smith, G. S., 200, 202, 205 Smith, H. M., 161 Smith, H. P., 841 Smith, K. M., p. 252 Smith, R. R., Follett-, see Follet-Smith, R. R. Smith, R. W., 233 Smith, T. E., 382 Šmuk, see Schmuck Snedecor, G. W., p. 361 Snyder, W. C., 1944 Sodiro, R. A., 1282 Sonneborn, T. M., 139, 1153 Sørensen, T., 1869 Sosa-Bourdouil, C., 342 Soulier, E. J., 1285 Soutter, R. E., 35 Soyza, D. J. de, 1063 Sparks, W. C., 1931 Speese, B. M., 157 Sprague, G. F., 756, 1245, 1507 Squibb, R. L., 802

Sreenivasaya, M., 1110

Srinath, K. V., 1027, 1034-5 Srinivasan, V. K., 108 Standy, V. K., 106 Stacey, M., 1483 Stahl, C., 1769 Stahl, J. L., 1909 Stakman, E. C., 238, 280, 1703 Stamberg, O. E., 1264 Stanberry, C. O., 1292 Stanford, B. H., 356 Stanton, T. R., 1724-5 Stapp, C., 1164, 1176, 1178 Stearn, W. T., 103 Stearn, W. 1., 103
Stebbins, G. L. (jun.), 146, 633, 1776
Steedman, H. F., 23
Steelman, C. H. (jun.), 1898
Steere, W. C., 414
Stefaniak, J. J., 1675
Steiner, E., 1938
Stepanov, V. N., 1696
Stephon, J. C., 1756 Stephens, J. C., 1756 Stephens, S. G., 360, 549, 1075 Stern, C., 1147 Stern, H., 1652 Stevens, H., 277
Stevens, O. A., 1871
Stevenson, F. J., 343, 812, 1310
Stevenson, G. C., 1086, 1538
Steyaert, R. L., 1638
Stitt, R. E., 1298
Stoa, T. E., 242, 1209
Stockwell, P., 1424
Stockwell, W. P., 455
Stoffels, E. H. J., 883
Stokes, I. E., 363
Stomps, T. J., 1162
Stout, A. B., 666, 1181
Strachan, C. C., 1109
Straib, W., 1714
Stratton, F. J. M., 1467
Stroman, G. N., 1945
Strong, F. M., 1738 Stevens, H., 277 Strong, F. M., 1738 Strong, L. C., 639 Struckmeyer, B. E., 1887 Strydom, H. L., 571 Stuart, A., 1503 Stuart, N. W., 1934 Stubbe, H., 638
Stuckey, I. H., 1770
Subramaniam, M. K., 28, 516–7, 1491
Sukhatme, P. V., 1469
Sullivan, B., 263 Sullivan, J. T., 1465 Summers, E. M., 1815 Sun, V. G., 806, 808–11, 1788–9 Sundar Rao, Y., 1105 Sundelin, G., 697 Suneson, C. A., 715 Susarov, A., 308 [Sutton, E.], 1590 Svenson, H. K., 1667 Swamy, R. L., Narasimha, see Narasimha Swamy, R. L. Swanson, A. F., 208 Swen, C. I., 1710 Swen, M. S. D., 1096 Swingle, R. U., 445 Sylvén, N., 946–7 Synge, R. L. M., 1152 Syrach Larsen, C., 948 Sze, L. C., 808-9, 824, 963, 989

Тäckнolm, G., p. 486 Täckholm, V., p. 486 Taggart, W. G., 364, 1812, 1821 Tamayo, A. Izquierdo, see Izquierdo Tamayo, A. Tan, C. C., 824 Tang Siang-Yu, 730 Tapke, V. F., 301, 1267 Tarasenko, G. G., 897 Tatum, E. L., 159, 167, 177, 1190 Tavčar, A., 723, 878, 1263, 1373 Taylor, H., 1169 Teece, E. G., 1483 Teece, E. G., 1483 [Teissier, G.], 506 Ter-Avanesjan, D. V., 837, 839 Teterev, F. K., 890, 910 Thaarup, P., 951 Thoday, J. M., 1029–30 Thom, C., 174, p. 251 Thomas, I. 1496 Thomas, I., 1496
Thomas, P. T., 510, 1952
Thompson, H. C., p. 490
Thompson, R. C., 470
Thoria, L., 1077
Thorold, C. A., 572
Throckmorton, R. I., 201 [Thung, T. H.], 383 Timoféeff-Ressovsky, N. W., 1621 Timofeev, N. N., 1426, 1790, 1872, 1935 Ting, C. L., 1949 Tiniakov, G. G., 1629 Todd, F. E., 1779 Todd, F. E., 1779
Tome, G. A., 1300
[Topper, B. F.], 1880
Törnqvist, G. I., 1584
Torres y Zorrilla, R., 1407
Torrie, J. A., 1726
Torssell, R., 602
Tovar, W. Cevallos,
Tovar, W. Trovir, J. S. 1622 Cevallos, see Cevallos Travin, I. S., 1632 Trofimec, N. H., 961, 966 Troje, E., 857 Trouvelot, B., 344-5 Tsiang, Y. S., 1246, 1731 Tsu, M. K., 988 Tsung Chen Hwang, see Hwang Tsung Tsung Lê Lee, see Lee Tsung Lê Tu, D. S., 1513-4, 1759, 1762 Tucker, C. M., 1423 Tucker, J. M., 1420 Tukey, H. B., 424, 915, 1890 Tullis, E. C., 1764 Turesson, G., 1183 Turner, N., 110 Turrell, F. M., 189, 1883 Turrill, W. B., 1487 Tysdal, H. M., 785, 1289, 1291, 1778

Ullstrup, A. J., 759, 1745 Upholt, W. M., 1118

V....., M., 187
Vachhani, M. V., 83
Valencia, J. I., 1776
Valencia, R. M., 1776
Valiela, M. V. Fernandez, sée Fernandez Valiela, M. V.
Valle, C. G., del, 493
Valle, G. Del, see Del Valle, G.
Valle, O., 601
Valleau, W. D., 1852
Vallega, J., 239, 291, 355
Vanderwaeren, J., 377, 1332, 1823, 1830–1, 1841, 1843–50

Van Duyne, F. O., 341 Vansell, G. H., 1779 Varney, H. R., 687 Vasatko, J., 1834 Vasiljev, V. L., 968 Vasudeva Sarma, R., 550 Vaughn, R. H., 1188 Veenstra, G., 1427 Vendrely, R., 1628, 1672 Venkatasubban, K. R., 585 Venkataramani, K. S., 1563-4 Venner, A. K., 570 Verdoorn, F. (Editor), p. 110, p. 372 Verner, L., 896, 1400 Veselovskii, I., 822 Viégas, G. P., 1758 Vik, K., 1950 Vinogradova, N. M., 1698, 1749 Virabhadra Rao, J., 109 Visweswara Rao, K., 550 Vogt, 1681 Volcani, I. Elazari-, see Elazari-Volcani,

Volosky Yadlin, D., 729 Voronjuk, B. A., 334

WAAL, D. de, 1711 Wade, B. L., 1461 Wagner, S., 1233 Waksman, S. A., 165-6 Wald, A., 113 Waldo, G. F., 929 Waldron, L. R., 273, 1229 Walker, C., 1505 Walker, H. B., 1441 Walker, J. C., 1932, 1936 Walker, W. F., 1107 Wallace, G. B., 1049 Wallace, T., 58 Wallerstein, J. S., 1193-4 Wallin, J. R., 1701, 1739 Walls, E. P., 998 Wang Chi Chu, 368 Wang, C. M., 1302 Wang, F. H., 1742 Wang, H. R., 1219, 1222 Wang, T. H., 726 Ward, T. J., 1058 [Wanrooy, G. L.], 383 Wanscher, J. H., 1634 Ware, J. D., 1323 Warmke, H. E., [1590-2], 1653 Waterman, A. M., 1919 Watkins, G. M., 1739

Weast, C. A., 1928 [Weatherley, P. E.], 1525 Weatherwax, P., 1254 Weaver, J. G., 1442 Webber, H. H., 836 [Webber, H. J.], 1879 Webster, C. C., 577, 1093-4 Webster, O. J., 246 Webster, R. E., 1948 Weibel, R. O., 1259, 1859 Weidhaas, H., 958 Weij, H. G. van der, 1355 Weimer, J. L., 1296, 1782 Weinberger, J. H., 914 Weiss, J., 1478 Welch, A., 740 Wellensiek, S. J., 743, 1156, 1240, 1445, 1458, 1460, 1606, 1627, 1635, 1853, p. 365 Wellington, R., 1891 Wen Hsien Chen, see Chen Wen Hsien Went, F. W., 1664 Werth, E., 1786 [West, J.], 1091, 1525 Wester, R. E., 1449 Westergaard, M., 1646 Westover, H. L., 332 Wexelsen, H., 798, 1293, 1723 Whaley, W. G., 1381 Whalley, M. E., p. 112 Wheeler, H.-W., 385 Whitaker, T. W., 472, 1432, 1438 White, D. G., 685 White, D. G., 063 White, M. J. D., p. 366 White, N. H., 590 White, W. J., 1517 Whitehead, T., p. 252 Whitehouse, H. L. K., 1033 Whitehouse, W. E., 425 Whiteman, T. M., 820 Whiteside, A. G. O., 36 Widmark, E. M. P., 147 Wiebe, G. A., 299 Wiegand, E. H., 929 Wiggins, L. F., 1483 Wiidakas, W., 1747 Wiklund, K., 1728 Wilcox, A. N., 940, 1907 Wilcox, M. S., 1320 Wilde, J. E., 922 Wilkins, W. H., 518 Wille, J., 68 Williams, C. B., [521], 1006

Williams, C. H. B., 564-5 Williams, L. F., 995, 997 Williams, W., 539 Willigen, A. H. A. de, 1318 Wills, J. M., 89 Wilm, H. G., 1116 Wilson, G. B., 661, 1911 Wilson, J. D., 1929 Wilson, K. S., 1250 Wingard, S. A., 727 Winge, Ö., 170, 181, [506], 675 Winter, J. D., 904 Witkin, E. M., 1187, 1670 Witkus, E. R., 657, 1658 Witlin, B., 156 Witte, H., 162 Wittlake, E. B., 158 Wolfrom, M. L. (Editor), p. 368 Wood, R. C., p. 487 Woods, M. W., 635, 1665 Woodworth, C. M., 1226, 1859 Worzella, W. W., 215, 711 Wouters, W., 754, 1324 Wright, E. C., Barton-, see Barton-Wright, E. C. Wright, R. C., 820 Wright, R. E., 834 Wright, S., 137, 631, 1154 YADLIN, D. Volosky, see Volosky

Yadlin, D. Volosky, see Volos Yadlin, D. Yang, M. N., 1805 Yen, C. H., 855 Yi Li Keng, see Keng Yi Li Yin, S. Y., 1219, 1222 You Kai Lee, see Lee You Kai Young, C. B. F., p. 371 Young, P. A., 985 Young, V. H., 1807 Yu, S. L., 996 Yu, T. F., 302, 1219, 1222 Yusuf, N. D., 566, 1539

Zamenhof, S., 1023
Zaumeyer, W. J., 1461
Žebrak, see Zhebrak
Zhebrak, A. R., 596
Zielinski, Q., 979
Zimmer, K. G., 636
Zorrilla, R. Torres y, see Torres y
Zorrilla, R. & Zorrilla, R. Zorrilla, R. Zorrilla, R. Zorrilla, R. Zorrilla, R. Zorrilla, R. Zoheile, F. P., 459
Žukovskii, P. M., 412
Zulueta, M. M., p. 246

SUBJECT INDEX

to Plant Breeding Abstracts, Volume XVI

ABACÁ, see fibre plants, Musaceae Aberrations, chromosome, see cell division, aberrant, and mutation Abies, see softwood trees Abnormal growth, see growth, secondary Abutilon, see fibre plants, Malvaceae Acacia, see tanning plants Accessory organs, 405, 549, 796, 1368-70, 1444, 1525, 1532, see also morphology Acclimatization, 1435 Aconitum, see aconite Acorus, see medicinal plants Acquired characters, inheritance of, see adaptation Acrocomia, see fibre plants, Liliaceae Actinidia, see fruits, minor Actinomyces, see bacteria Adaptation, 142, 509, 737, 952, 968, 1144, 1215, 1346, 1604-5 Aegilops, see wheat Aesculus, see hardwood trees, minor Affinity, see sterility Africa, plant breeding and genetics, 1098 North Central, 1092 South Central, 1111 Agave, 361 Aghania, see bean (Phaseolus) Agriculture, p. 110, p. 487, see also applied science Agronomy, p. 372, see also agriculture Agropyron, see grasses, minor, forage Agrostis, see bent Albinism, inheritance, see colour distribution, inheritance Albugo, see fungi, Peronosporales Aleurites, see linseed and other drying oils Alfalfa, see Medicago Algeria, plant breeding and genetics, 427, 430 Alkaloids, see plant products, quality Alleles, multiple, see allelomorphs, multiple Alleles, simple, see factors, simple Allelomorphs, multiple, 548, 558, 1073, 1243-4, see also factors, simple Allelomorphs, paired, see factors, simple Allium, see onion Allium, minor species, 99, 468, 956, 961, 963-6, 1178, 1429 Allometric growth, see growth Allopolyploidy, see polyploidy, haploidy Allspice, see spices Almond, 1128, see also nuts, dessert Aloe, see Agave Alopecurus, see grasses, Agrostideae Alternaria, see fungi, Hyphomycetes Alternation of generations, see reproduction Amaranthus, see cereals, minor Amelanchier, p. 375 Amitosis, see cell division Amorphophallus, see medicinal plants Ampelography, see vine Amphidiploidy, see polyploidy, haploidy, and hybrids, true breeding Amygdalus, see peach, and almond Anabolism, 365, 1446, p. 370, see also physiology, plant Analysis, chemical, see biochemistry, plant Analysis, factorial, see genetics, detailed studies Analysis, statistical, see statistics Analysis of variance, see statistics Ananas, see pineapple Anatomy, plant, 88, 189, 438, 475, 685 Andropogon, see grasses, Andropogoneae

Aneuploidy, 397, 658, 1250, see also cell division, aberrant

Angiosperms, injurious, 1010, see also phytopathology Animals, injurious, 59, 125, 130-1, 425, 604, 616, 628, 700, 984, 1089, 1136, 1593-5, 1797, see also insects and phytopathology Anomalies of growth, see growth, secondary Anomalies of reduction division, see cell division, aberrant Anther, see flower, and pollination Anthesis, see pollination Anthoxanthum, see grasses, Phalarideae and allied tribes Aphanomyces, see fungi, Saprolegniales Aphids, see insects Apium, see celery Apogamy, see reproduction, asexual Apomixis, see reproduction, asexual Apospory, see reproduction, asexual Apparatus, see technique, experimental Apple, cultivated, 624, 893, 895-6, see also pome fruits Bacteria, 583 Botany, 423, 622, 899-904, 1887-8 Cytology, 623, 897-8, 1470 Diseases, environmental and physiological, 1388, 1394 Fungi, 1019, 1390, 1395 Genetics, 607, 623-4, 894-8, 1120, 1130, 1139, 1470, 1597, Physiology, 623, 1131, 1133, 1888 Technique, experimental, 899 Apple canker, see fungi, Pyrenomycetes Apple scab, see fungi, Pyrenomycetes Apple, wild, see pome fruits Applied science, p. 371-2, p. 485 Apricot, 624, 906-7, 1396-7, see also stone fruits Arachis, see groundnut Argentina, plant breeding and genetics, 204, 239, 291, 355, 371, 629, 704, 762, 770, 854, 875, 879, 972, 1330, 1339, p. 374 Armeniaca, see apricot Armillaria, see fungi, Hymenomycetales Aromatic flowers, 1003 Arrhenatherum, 1142 Arrow, see flower Artichoke, Jerusalem, 463-4. Artocarpus, see bread fruit Asclepias, see rubber plants, minor Ascochyta, see fungi, Sphaeropsidales Ascomycetes, 16, 52, 535 Ascorbic acid, see vitamins Asexual reproduction, see reproduction, asexual Ash, see biochemistry, plant Ash (Fraxinus), see hardwood trees, minor Ash (Sorbus), see hardwood trees, minor Ashbya, see fungi, Saccharomycetales Asparagus, 607–8, 610, 967, 1129, 1208, p. 490 Aspen, see poplar Aspergillus, see fungi, Plectascales Astragalus, see pulses, minor Asynapsis, see cell division, aberrant, and meiosis Asyndesis, see cell division, aberrant Atavism, see reversion Aubergine, see egg plant Auricle, see accessory organs Australia, plant breeding and genetics, 93, 543-4, 567, 1040, 1050-1, 1085, 1106, 1496-8, 1549 New South Wales, 1185 Queensland, 35, 42, 53, 73, 89, 105, 586, 1082, 1474 Tasmania, 100, 590-1, 1107 Victoria, 71, 522, 1023, 1313, 1768 Western, 49 Autopolyploidy, see polyploidy, haploidy

For further information on general topics, see also particular branches.

Autosomes, see nucleus, structure Auxins, see hormones Avena, see oats Avocado, 1878–80 Awn, see flower

BACK CROSSING, see hybridization Back mutation, see mutation, back

Bacteria, 16, 88, 128, 131, 164-8, 485, 502, 512-4, 567, 583, 590, 609-11, 613-4, 616, 618-9, 625-6, 863, 905, 988, 1019, 1066, 1086, 1120, 1137, 1159, 1164, 1186-9, 1292, 1311, 1355, 1442, 1596-9, 1601-2, 1628, 1670-2, 1701,

see also phytopathology

Bajra, see millet

Baking quality, see plant products, quality Balance, chromosome, see nucleus, structure

Balkan countries, plant breeding and genetics, 374, 1342, 1448, 1892

Balm, see medicinal plants Bamboo, see grasses, minor forage Bambusa, see grasses, minor forage Banana, 14, 1102, 1473, 1561-4, 1911

Barberry, see bush fruits, minor Barbs, see flower

Barley, 38, 117, 762, 1117, 1121, 1259, 1268, 1751, see also cereals

Botany, 43, 298-9, 505, 530, 720, 766-9, 772-3, 1020, 1058-61, 1142, 1262-6, 1500, 1508-9, 1599, 1750

Cytology, 154, 301-2, 765-6, 1142, 1261, 1749 Diseases, environmetal and physiological, 609, 619,

1142, 1268 Fungi, 129, 160, 301-2, 504, 603, 613, 624, 626, 771, 1010,

1061, 1267, 1509, 1752 Genetics, 129-30, 295, 504-5, 529-30, 603, 609, 613, 618-9, 624, 627, 696, 763-4, 771, 1019-20, 1059-60,

1121, 1138-42, 1150, 1260-1, 1263, 1265, 1267, 1472, 1508-9, 1577, 1581, 1599, 1601, 1748-9

Insects, 249, 1510

Physiology, 1262 Taxonomy, 300, 770, 1712

Technique, experimental, 297, 300, 769, 1266

Barley scald, see fungi, Hyphomycetes Basisporium, see fungi, Hyphomycetes

B chromosomes, see aneuploidy Bean, broad, see bean (Vicia)

Bean, field (in America), see bean (Phaseolus)

Bean, field (in Gt Britain), see bean (Vicia) Bean, French, see bean (Phaseolus)

Bean, kidney, see bean (Phaseolus)

Bean, Lima, 990, 1128, 1449, 1597, 1948, see also pulses

Bean (Phaseolus), 956, 1127, 1569, see also pulses Animals, injurious, 125

Bacteria, 590, 609, 1598-9 Botany, 482, 1446, 1448, 1946

Cytology, 482

Diseases, environmental and physiological, 1947

Fungi, 483, 1134, 1594, 1601

Genetics, 9, 16, 125, 128, 481, 605, 609, 614, 618-9, 627. 1019, 1127, 1134-5, 1139-40, 1445-7, 1470, 1594-5, 1598-9, 1601-2, 1945, 1947

Insects, 619, 1597

Virus, 484, 609, 614, 1134, 1139-40

Bean, snake, see pulses, minor

Bean, soya, 12, 106, 487, 610, 620, 991, 1019, 1111, 1121, 1136, 1138, 1450, see also pulses and leguminous forage plants

Animals, injurious, 131

Botany, 130, 486, 604, 996-8, 1138, 1452-3

Fungi, 611

Genetics, 128, 486, 603-5, 620, 623-4, 873, 992-5, 997, 1137, 1451, 1581, 1599-600, 1949

Virus, 124

Bean (Vicia), 171, 480, 989, 1581, see also pulses

Bearding, see flower

Beech, 1421

Beet, 607, 622, 805, 1120, 1122, see also root crops

Beet, forage, 1825

Beet, sugar, see sugar beet

Belgium, plant breeding and genetics, 377, 1324, 1332, 1824, 1830-1, 1839, 1845-50

Bent, 50, 122, 316, 1770-1, see also grasses, forage

Berries, see fruit, and bush fruits Beta, see beet, and sugar beet

Betula, see birch

Bibliographies, 862, p. 112, p. 372 Bilberry, see Vaccinium

Biochemical constitution of organisms, see biochemistry Biochemistry, 116, 1037, 1669, see also physiology

Biochemistry, plant, 19, 21, 120, 148, 159, 166–7, 177, 274, 298–9, 316–7, 321, 324, 333, 372, 389, 423, 448, 459, 473, 479, 490, 500, 507, 536, 550, 579–80, 641, 662–3, 673, 722, 943, 982, 1000, 1025, 1101, 1110, 1122, 1137, 1234, 1247, 1251-3, 1334, 1465, 1480-3, 1485, 1554, 1599, 1645, 1662, 1672, 1679, 1688, see also physiology, plant

Biology, 1572, p. 107-8, p. 247, p. 362

Biophysics, see physiology Biotypes, 164, 184, 643-4, 1145, 1151, 1193, 1196, 1447,

1630, 1632, 1634, 1674

Cereals, 210, 227, 229, 235–41, 280, 291, 301–2, 645, 717–8, 726, 729, 757, 1049–50, 1124, 1137, 1142, 1203, 1211, 1219–20, 1249, 1269, 1501, 1686, 1701, 1706, 1724-5, 1736, 1755, 1764, p. 488-9

Crop plants, minor, 419, 575, 1366, 1860

Fruits and forest trees, 431, 442, 585, 897, 906-7, 942 Grasses, forage, 312, 316, 321-2, 1142, 1279, 1284, 1685, 1701, 1767-8

Leguminous forage plants, 800, 1300, 1786

Root crops, 340, 807, 819, 1070-1, 1302, 1306, 1470, 1521 - 3

Stimulants, plants producing, 862, 1091, 1345

Sugar plants, 1816

Vegetable crops, 103, 171, 607-8, 972, 983, 988, 1160-1, 1438, 1462, 1597, 1601, 1938

Birch, 1422, 1921-2

Bird's foot trefoil, see leguminous forage plants, Loteae

Bisexual organisms, see sex Black arm, see bacteria

Blackberry, 436, 619, 1909, see also Rubus

Black currant, see Ribes

Black locust, see hardwood trees, minor Blight, chestnut, see fungi, Pyrenomycetes Blight, early potato, see fungi, Hyphomycetes

Blight, late potato, see fungi, Peronosporales

Blindness of oats, see virus

Bloom, see flower

Blueberry, see Vaccinium

Boehmeria, see ramie

Bolivia, plant breeding and genetics, 781

Bolting, see growth Borecole, see kale

Botanists, see personalities

Botany, 8, 10, 27-9, 90, 107-8, 117, 129, 151, 153-4, 163, 165, 209, 211, 215, 284, 347, 387, 392, 413, 466-7, 511, 517, 609, 639, 653-4, 680, 699, 766, 777, 803, 820, 857, 863, 954, 1019, 1023-4, 1064, 1078, 1127-9, 1137, 1142, 1156-7, 1170-8, 1191, 1216, 1225, 1240, 1348, 1401, 1428, 1453, 1470, 1484, 1552, 1598-9, 1615, 1627, 1632, 1655-7, 1664, 1671, 1678, 1690-1, 1714, 1761, 1767-8, 1792, 1802, 1824, 1828-9, 1867, 1939, p. 109-11, p. 369-70.

Botany, systematic, see taxonomy Botrytis, see fungi, Hyphomycetes Bouteloua, see grasses, Chlorideae Boysenberry, see loganberry Brachysporium, see fungi, Hyphomycetes Bradytely, see evolution

Bramble, see blackberry Branches, see stem Branches, shedding, see shedding of parts Brassica, see broccoli, brussels sprouts, cabbage, cauliflower, kale, kohl rabi, oil plants, Cruciferae, swede, and turnip Brazil, plant breeding and genetics, 1439, 1758, 1801, 1820, 1854-5, p. 487 Brazil nut, see nuts, minor Bread fruit, 584 Bremia, see fungi, Peronosporales Brinjal, see egg plant British East Africa, plant breeding and genetics, 12, 33, 56, 502, 572, 1525, 1550 Broad bean, see bean (Vicia) Broccoli, 9, 607, see also cauliflower Bromus, 318-23, 624, 787, 1768 Broom corn, see Sorghum Broom rape, see angiosperms, injurious Brown rot, tobacco, see bacteria Brussels sprouts, 956 Buckwheat, 737, 1234, 1720, see also cereals Bud sports, see segregation, somatic Bulbil, see reproduction, vegetative, organs Bunt, see fungi, Ustilaginales Burma, plant breeding and genetics, 587, p. 373 Bush fruits, 929-30, 1559-60, 1906-7, see also fruit crops

Bush nut, see nuts, dessert, minor Butyrospermum, see oil plants CABBAGE, 100, 125, 613, 615, 622, 956, 968-70, 1130-1, 1134, 1142, 1430, 1935-7 Cacao, 11, 79, 122, 399, 573-4, 605, 1091-2, 1545 Cages, see technique, experimental Cajanus, see pulses, minor Calamagrostis, see grasses, Agrostideae Calamus, see grasses, Festuceae Camelina, see oil plants Camellia, see tea Camphor plants, 580 Canada, plant breeding and genetics, 36, 86, 96-7, 504-5, 520, 524, 526, 530, 537, 1019–20, 1042, 1052–3, 1061, 1078, 1103, 1109, 1289, 1317, 1399, 1472, 1500–2, 1508–10, 1515, 1552, 1554, 1559–60, 1889 Cannabis, see hemp Cantala, see Agave Cantaloupe, see melon Caoutchouc, see rubber (Hevea) Caper, see condiments Capsicum, see pepper (Capsicum) Caragana, see tanning plants Caranga, see oil plants, minor Cardamon, see spices Carica, see papaya Carpel, see flower Carpellody, see flower Carpinus, see hardwood trees, minor Carrot, 98, 459, 607, 956, 1140, 1928-9 Carthamus, see sunflower and similar oil plants Carya, see pecan Caryocinesis, see mitosis Caryology, see nucleus, general studies Caryopsis, see seed Caryotype, see nucleus, structure Cashew, see nuts, dessert, minor Cassava, 11-12, 500, 502, 605, 1016-7, 1088 Cassia, see medicinal plants Castanea, see chestnut Castor oil plant, 128, 403, 506, 874, 1600, 1858-9 Catabolism, see physiology, plant Catenation, see cell division, aberrant Cauliflower, 101-2, 956, 968 Cedar, see softwood trees

Bush fruits, minor, 437, 933, 1416

Cell division, 510, 862, 1170-3, 1470, 1484, 1652, 1729, see also cytology Cell division, aberrant, 511, 516, 1029-30, 1174, 1486, 1581 Cereals, 715, 1214, 1589, 1737 Fibre plants, 559 Fruits and forest trees, 1102 Grasses, forage, 314, 715, 1776 Industrial plants, minor, 886 Root crops, 823-4, 1470 Stimulants, plants producing, 400, p. 254 Vegetable crops, 657 Cell, general biology, 1162 Cell membrane, see cell, structure Cell physiology, p. 249 Cell sap, see protoplasm Cell structure, 185, 678, 1025, 1480-2, 1636-8, p. 366, p. 368, see also cytology Central American states, plant breeding and genetics, 802, 850, 881, 1419 Centromere, see nucleus, structure Centrifuging, see mechanical forces, effect on the plant Cephalosporium, see fungi, Hyphomycetes Cerasus, see cherry, cultivated, and cherry, wild Ceratostomella, see fungi, Pyrenomycetes Cercospora, see fungi, Hyphomycetes Cereals, 31, 697, 702, 1038-40, 1571 Animals, injurious, 700 Bacteria, 1701 Botany, 698-9, 1177, 1495, 1699-700 Cytology, 1177, 1203, 1686, 1701 Diseases, environmental and physiological, 195 Fungi, 617, 1203, 1686 Genetics, 119-20, 200, 508, 617, 694-8, 701, 1041-2, 1697 - 8Insects, 701 Cereals, for forage, 130, 1772 Cereals, minor, 781 Ceylon, plant breeding and genetics, 47, 500-1, 519, 547. 566, 576, 578, 1063, 1088, 1099, 1528, 1543, 1548, 1557-8, 1565 Chalara, see fungi, Hyphomycetes Chamaecyparis, see softwood trees Chemical agents, effect on the plant, 10, 27-9, 90, 107-8, 117, 129, 151, 153-4, 165, 209, 211, 284, 376, 387-8, 392, 413, 438, 467, 511, 517, 609, 639, 654, 680, 689, 766, 803, 1019, 1023–4, 1064, 1078, 1127–9, 1137, 1142, 1156–7, 1172, 1174, 1176–8, 1348–9, 1401, 1428, 1453, 1470, 1484, 1490, 1552, 1598-9, 1627, 1655-6, 1671, 1678, 1690-1, 1767-8, 1802, 1824, 1828-9, 1867, 1939 Chemistry, plant, see biochemistry, plant Chemistry, soil, see soil chemistry Chenopodium, see cereals, minor Cherry, cultivated, 624, 910-11, 1388, 1399-400, 1470, 1555-6, see also stone fruits Cherry, wild, 624, 912, see also stone fruits Chestnut, 923-4, 1903-4, 1920, see also nuts, dessert Chestnut blight, see fungi, Pyrenomycetes Chiasma, see meiosis Chickpea, see gram Chicory, see salad plants Chile, plant breeding and genetics, 729 Chilli, see pepper (Capsicum) Chimeras, 141, 438, 1143, 1598, 1909, see also somatic segregation China, plant breeding and genetics, 121, 213, 306-7, 348, 350, 368, 421, 426, 434, 477, 595, 603-4, 671, 726, 730, 760, 780, 808-9, 855, 877, 973, 988, 1096, 1212, 1219,

1222, 1288, 1302, 1512-4, 1759, 1761-2, 1789, 1805,

Celebrities, see personalities

Cell, see cytology

Celery, 607, 609, 956, 1594-5, 1940, see also salad plants

1949

China grass, see ramie

China jute, see fibre plants, Malvaceae

Chive, see Allium, minor species Chloris, see grasses, Chlorideae Chlorophyll deficiency, inheritance, see colour distribution, inheritance Chlorotic streak, see virus Chromatids, see meiosis Chromatin, see nucleus, structure Chromosomes, see nucleus, structure, and polyploidy, haploidy Chromosomes, aberrations, see cell division, aberrant Chromosomes, fragments, see aneuploidy Chromosomes, inert regions, see nucleus, structure Chromosomes, maps, 1601 Chromosomes, movement, see nucleus, structure Chromosomes, number, see nucleus, structure Chromosomes, pairing, see meiosis Chromosomes, sex, see nucleus, structure Chromosomes, structure, see nucleus, structure Chromosomes, supernumerary, see aneuploidy Chromosomes, X, see nucleus, structure Chromosomes, Y, see nucleus, structure Chrysanthemum, see insecticides Cicatrization, see shedding of parts Cicer, see gram Cinchona, 122, 414, 500, 502, 605, 882-3, 1378-9, 1550, 1865 Cinetochore, see nucleus, structure Cinnamon, see spices Citrullus, see water melon Citrus, see citrus fruits, mandarin and orange Citrus fruits, 426, 629, see also fruit crops Classification, botanical, see taxonomy Clasterosporium, see fungi, Hyphomycetes Claviceps, see fungi, Pyrenomycetes Clementine, see mandarin Climate, effect on the plant, 1657, 1792, p. 111 Cline, see variation under natural conditions Clone, see reproduction, asexual Clove, see fruits, Myrtaceae Clover, 120, 538-9, 619, 1122, 1780, see also leguminous forage plants Clover, crimson, 613, 1295 Clover, Japanese, see Lespedeza Clover, red, 16, 333, 609, 618, 797-8, 1066, 1122, 1293, 1581 Clover, sweet, 128, 336, 803, 1141, 1598-600 Clover, white, 611, 1019, 1122, 1294, 1767-8 Club root, see fungi, Chytridiales Cocksfoot, 315, 1129, 1277-8, 1685, 1767-8, see also grasses, forage Cocoa, see cacao Coconut, 1473, 1557-8, see also fruits, Palmaceae Cocos, see coconut Cocoyam, see starch plants, minor Coffea, see coffee Coffee, 78, 122, 502, 572, 605-6, 1090, 1358, 1544, 1854-6 Cola, see kola Cold damage, see temperature, low, damage due to Collar rot, see fungi, Hyphomycetes Collection, plant, see plant introduction Colocasia, see starch plants, minor Colletotrichum, see fungi, Melanconiales Colour, inheritance, 48, 282, 288, 404, 436, 496, 551, 1010, 1243, 1251, 1363, 1373, 1440, 1446, 1525, 1532, 1572, 1719, 1756, 1805, 1932 Colour distribution, inheritance, 63, 478, 480, 500, 548, 557-8, 755, 878, 912, 1062, 1076, 1142, 1212, 1436, 1721, 1768, 1945 Colza, see oil plants, Cruciferae

Commelina, see pigment plants

398, 402, 605

Conferences, see meetings, scientific

Complementary factors, see factors, multiple Complementary genes, see factors, multiple Condiments, 627 Congo, Belgian, plant breeding and genetics, 122, 187,

Conifers, see softwood trees Cooking quality, see plant products, quality Coprinus, see fungi, Hymenomycetales Corchorus, see jute Corn, in America, see maize Corn, in British Commonwealth, see cereals, and wheat Corn, pop, see popcorn Corn, sweet, see sweet corn Correlation, see statistics Corticium, see fungi, Hymenomycetales Corylus, see hazel Coryneum, see fungi, Melanconiales Cotton, 67, 69, 70, 350-2, 503, 553, 840-1, 843, 1013, 1321, see also fibre plants Animals, injurious, 628, 1136 Bacteria, 502, 1525, 1593, 1806 Botany, 65, 549-52, 838-9, 1076-7, 1323, 1525, 1531-2, 1802-5Cytology, 549, 838, 1076, 1529–30, 1802 Diseases, environmental and physiological, 545, 551, Fungi, 122, 125, 127, 545, 605, 616, 1134-6, 1321, 1807 Genetics, 11, 13, 15, 60-4, 68, 122, 124-7, 130-1, 348-9, 502, 545-8, 551, 553-4, 604-5, 614-6, 618-9, 627-8, 836-8, 841, 1021, 1072-6, 1134-7, 1322, 1474, 1525-9, 1531-3, 1593, 1596, 1602-3, 1801-2, 1804-5 Insects, 68, 122, 545, 551, 554, 605, 842, 1321, 1474, __1525, 1533 Taxonomy, 1324 Couch grass, see grasses, minor, forage Court noué, see virus Cowpea, see Dolichos Crambe, see oil plants, and starch plants, minor Cranberry, 438, 607, 1141, see also bush fruits Crimson clover, see clover, crimson Cronartium, see fungi, Uredinales Crop plants, minor 575 Cropping, see yield Cross incompatibility, see sterility Cross pollination, see pollination Crossing, see hybridization Crossing, distant, see hybridization, distant Crossing, intergeneric, see hybridization, intergeneric Crossing, interspecific, see hybridization, distant Crossing over, 285, 488, 748, 1076, 1140, 1142, 1269, 1434, 1456, 1509, 1513, 1536, 1601, 1616-7, 1676, 1727, 1733, 1745 Crotalaria, see leguminous forage plants, Podalyrieae, Genisteae Cryptostegia, see rubber plants, minor Cubé, see insecticides Cucumber, 471-2, 474, 607, 609, 613-4, 956, 974, 1120, 1129, 1134, 1589, 1597 Cucumis, see cucumber, and melon Cucurbita, 471-3, 611, 616, 972-3, 1020, 1127, 1129-30, 1436-8, 1588-9 Culture methods, see technique, experimental Cumulative factors, see factors, multiple Cumulative genes, see factors, multiple Cupressus, see softwood trees Curly top, see virus Currant (Ribes), see Ribes Currant (Vitis), see vine Cutting, see reproduction, vegetative, artificial Cypress, see softwood trees Cystopus, see fungi, Peronosporales Cytology, 1635, 1690 Cytoplasm, see protoplasm Cytoplasmic granules, see protoplasm Cytoplasmic inclusions, see protoplasm Cytoplasmic inheritance, 139, 506, 635, 755, 1153, 1192, 1212, 1278, 1477, 1623, 1707, 1768 Cytospora, see fungi, Sphaeropsidales Czechoslovakia, plant breeding and genetics, 1834

DACTYLIS, see cocksfoot Date, 928, 1905, see also Fruits, Palmaceae Daucus, see carrot Death, see physiology Defoliation, see shedding of parts Deletion, see interchange Denmark, plant breeding and genetics, 313, 458, 469, 694, 735, 951, 1122, 1241, 1316, 1425, 1689, 1769, 1795
Design of field experiments, 67, 129, 192, 217–21, 420, 594–5, 1004–5, 1114–7, 1571, 1751, 1763, p. 361 Derris, see insecticides Desmodium, 802 Desquamation, see shedding of parts Deuterophoma, see fungi, Sphaeropsidales Development, 489, 1185, 1588-9, 1739, see also physiology, plant Dewberry, see Rubus Diaporthe, see fungi, Pyrenomycetes Dictionaries, p. 485 Didymaria, see fungi, Mycelia sterilia Didymella, see fungi, Pyrenomycetes Differentiation, see growth Digitalis, see medicinal plants Dimentions, inheritance, 1767-8 Dimorphism, sexual, see sex Dioscorea, see yam Diospyros, see kaki Diplodia, see fungi, Sphaeropsidales

Dipsacus, see industrial plants, minor Dipteryx, see flavouring essences, plants producing Directed mutation, see mutation, induced Diseases, environmental and physiological, 445, 1319 Diseases, plant, see phytopathology Distant crossing, see hybridization, distant

Distant hybridization, see hybridization, distant Distribution, geographical, see plant geography Dolichos, 485, 615-6, 1594, see also leguminous forage plants

Dominance, 1073, 1158, 1529, see also genetics, detailed studies

Dormancy, see growth Dothidella, see fungi, Pyrenomycetes Drought damage, see temperature, high, damage due to Dryness, see temperature, high, damage due to Duplicate genes, see factors, multiple Durra, see sorghum Dutch elm disease, see fungi, Pyrenomycetes

Dwarfing, inheritance, see height, inheritance Dye plants, see pigment plants EAR, see flower Earliness, inheritance, 128, 704, 776, 1426, 1588-9, 1726,

Early blight of potatoes, see fungi, Hyphomycetes East Indies, plant breeding and genetics, 383, 1355, 1814, 1853, p. 372 Echinochloa, see millet Ecology, 18, 1183, 1487, see also botany Ecotypes, see biotypes Eddo, see starch plants, minor Eel worm, see animals, injurious Egg plant, 500, 621, 1594-5 Egypt, plant breeding and genetics, p. 486

1831, 1935

Ehrharta, see grasses, Phalarideae and allied tribes Eire, plant breeding and genetics, 216, 295, 498, 555, 1231,

1519 Elaeis, see oil plants, Palmaceae Elettaria, see spices Eleusine, see millet Elm, 445, 1103, 1120, 1423 Elm disease, see fungi, Pyrenomycetes Elymus, see grasses, minor, forage Embryo, 25, 338, 424, 435, 967, 990, 1358, 1742

Embryo sac, 1650 Embryology, see reproductive organs Endive, see salad plants Endomitosis, see cell division Endomyces, see fungi, Protoascales Endosperm, 755, 1588-9 Endosperm, development, see seed development Endothia, see fungi, Pyrenomycetes England, plant breeding and genetics, 29-31, 38, 41, 43, 54, 58-9, 76, 79-81, 84, 87, 92, 94-5, 104, 495-6, 499, 521, 523, 539, 542, 553, 570, 581, 589, 869–70, 1009, 1038–9, 1046–7, 1055–6, 1058–60, 1065, 1067, 1087, 1112, 1468, 1470, 1499, p. 252, p. 375 Environment, see adaptation Environmental factors, see physiology Environmental factors, effect on the plant, 1632 Enzymes, 173, 720, 1195, 1262, 1614, 1928, see also biochemistry Epigeal germination, see germination Ephedra, see medicinal plants Epistasis, see dominance Eragrostis, see grasses, Festucae Ergot, see fungi, Pyrenomycetes Erianthus, see sugar cane Error, probable, see statistics Eruca, see oil plants, Crucifereae Erysiphe, see fungi, Perisporiales Ethnos, see variation under natural conditions Eucalyptus, see hardwood trees, minor Euchlaena, see maize Eugenia, see fruits, Myrtaceae Euploidy, see polyploidy, haploidy Evolution, 133, 144-8, 155, 640-2, 1036, 1152, 1158-9, 1185, 1624, 1631, 1633, 1923, p. 247, p. 366, p. 485 Exotic species, introduction, see plant introduction Experiments, see technique, experimental

FACTORS, complementary, see factors, multiple Factors, cumulative, see factors, multiple Factors, lethal, 134, 632, 1155 Factors, Mendelian, see factors, simple Factors, multiple, 863, 1075, 1182, 1756, see also factors. simple Factors, quantitative, see factors, multiple

External factors, effect on the plant, 8, 215, 347, 466, 699,

Experiments, field, see design of field experiments

777, 954, 1216, 1240, 1539, 1761

Extinction, see viability

Factors, serial order along chromosome, see genetics, detailed studies Factors, simple, 1147, see also genetics, detailed studies Factors, supplementary, see factors, multiple Fagopyrum, see buckwheat

Fagus, see beech Fasciation, see growth, secondary Feijoa, see fruits, Myrtaceae Female sterility, see sterility Fermentation, see enzyme Fertility, see sterility Fertilization, sexual, 721, 966, see also reproduction, sexual Ferula, see medicinal plants

Fescue, 310, 324, 1767-8, 1773 Festuca, see fescue

Fibre plants, 1581, p. 253 Fibre plants, Liliaceae, 16, 849 Fibre plants, Malvaceae, 122, 360, 605, 1537

Fibre plants, minor, 844 Fibre plants, Musaceae, 850 Fibre quality, see plant products, quality

Ficus, see fig

Field experimentation, see design of field experiments Fig. 430, 1402-6 Filbert, see hazel

For further information on general topics, see also particular branches.

Finger and toe, see fungi, Chytridiales Finland, plant breeding and genetics, 601, 694 Fir, see softwood trees Fire blight, see bacteria Flag smut, see fungi, Ustilaginales Flax, 16, 71, 154, 353-8, 555, 617, 629, 845-7, 1019, 1078, 1120-1, 1325, 1581, 1603, 1808-9, p. 112, see also linseed and other drying oils Flora, see plant geography Flower, see morphology Cereals, 212, 292, 298, 768, 1056, 1062, 1215, 1263, 1513, 1709, p. 489 Crop plants, minor, 404, 409, 1364-6 Fibre plants, 1531, 1805 Fruits and forest trees, 423, 607, 622, 901-2, 1887, 1910 Industrial plants, minor, 86 Stimulants, plants producing, 864, 1010 Vegetable crops, 391, 405, 480 Flower, development, 361, 566, 607, 1539 Fluctuation, see variation Fluorescence, 168 Fomes, see fungi, Hymenomycetales Forage beet, see beet, forage Forage grasses, see grasses, forage Forage plants leguminous, see leguminous forage plants Forage plants, minor, 1786 Forestry, 24, 93–7, 442, 587, 946–50, 1104–5, 1565–6, 1916-7, p, 254 Form, inheritance, 82, 1298, 1955 Foxglove, see medicinal plants Fox tail, see grasses, Agrostideae Fragaria, see strawberry France, plant breeding and genetics, 117, 192, 278, 300, 463, 712, 1121, 1325 Fraxinus, see hardwood trees, minor French bean, see bean (Phaseolus) Frost damage, see temperature, low, damage due to Fruit, 423, 436, 478, 668, 903, 974, 979, 1140, 1367, 1426, 1434, 1440, 1883, see also morphology

Fruit, development, 471, 607, 900, 1803

Fruit crops, 421, 1184, 1880, see also agriculture Botany, 87, 1100, 1392, 1881-4

Cytology, 1387 Genetics, 422, 504, 581-2, 603, 691, 888-90, 1128, 1130-1, 1387-91, 1417, 1577, 1872-80, 1945

Physiology, 1472

Technique, experimental, 87, 1883

Fruits, Cactaceae, p. 375 Fruits, minor, 434-5, 606 Fruit, Myrtaceae, 1101, 1407, 1879 Fruits, Palmaceae, 585, 1410-3

Fungi, 169-71, 234, 555, 624, 671-2, 1010, 1122, 1131, 1472, 1489, p. 250, see also phytopathology

Fungi, Basidiomycetes, 518, 1138, 1196, 1601

Fungi, Chytridiales, 9, 542, 828, 1019, 1303, 1315-6 Fungi, Hymenomycetales, 682, 1197

Fungi, Hyphomycetes, 16, 71, 122, 125, 127, 130, 248, 293, 323, 358, 394, 432, 479, 483, 545, 581, 605, 607–9, 611, 613, 616, 618–20, 622, 626–7, 759, 771, 983–5, 1010, 1013, 1019, 1052, 1059, 1120, 1129, 1134-8, 1141-2, 1321, 1395, 1433, 1443, 1492, 1593-5, 1597-9, 1601, 1603, 1727, 1745, 1752, 1764, 1767, 1807, 1809, 1851, 1919, 1940, 1944, p. 251

Fungi, Melanconiales, 129, 356-7, 605, 1018, 1086, 1121, 1296, 1757, 1932

Fungi, Mucorales, 1673

Fungi, Mycelia sterilia, 130, 545

Fungi, Perisporiales, 312, 472, 504, 506, 613, 708, 1120,

1127, 1130, 1134, 1136, 1432, 1782

Fungi, Peronosporales, 9, 12, 92, 343, 383, 386, 521, 541, 605, 611–2, 618–9, 740, 871, 923, 1019, 1127, 1130, 1134, 1136, 1231, 1302, 1313-4, 1589, 1594-5, 1943 Fungi, Pezizales, 1581

Fungi, Plectascales, 172-5, 514, 673, 1490, 1674-5, p. 251

Fungi, Protoascales, 178

Fungi, Pyrenomycetes, 26, 176-7, 225, 604, 616, 674, 884 924-5, 1032-3, 1120, 1190-1, 1136, 1381, 1390, 1676-9 1866, 1892, 1904

Fungi, Saccharomycetales, 27-8, 179-83, 515-7, 605, 675-81, 1034-5, 1192-5, 1491, 1622, 1680-3, p. 373

Fungi, Saprolegniales, 1139

Fungi, Sphaeropsidales, 247, 292, 609, 956, 1137, 1336, 1594-5, 1600, 1602, 1686

Fungi, Uredinales, 12, 36, 131, 228, 235-46, 280, 291, 355, 617–20, 622, 624, 628, 708, 729, 1010, 1019, 1036, 1049–51, 1061, 1120, 1136, 1139, 1224, 1501, 1509, 1594, 1601, 1685, 1713–5, 1726, 1744, 1767–8, 1773 Fungi, Ustilaginales, 12, 129, 184, 227-34, 246, 279, 287,

301-2, 603, 623, 626, 629, 696, 708, 725-8, 854, 1048, 1120, 1133, 1137, 1139, 1142, 1203, 1219-23, 1267, 1330, 1601, 1684, 1724-5, 1767

Fungicides, 1130

Fusarium, see fungi, Hyphomycetes Fusisporium, see fungi, Hyphomycetes

GALLS, see phytopathology Gametangium, see reproductive organs Gametogenesis, see reproduction, sexual Garcinia, see fruits, minor Gaultheria, see flavouring essences, plants producing Gemini, see meiosis

Genes, lethal, see factors, lethal Genes, nature and physiology, 19, 136-9, 177, 497, 634, 1022, 1152-3, 1447, 1579, 1618-22

Genes, simple, see factors, simple

Genetics, detailed studies, 176, 180, 631, 674, 1146, 1192, 1470

Cereals, 48, 212, 225, 251, 282, 287-8, 609, 711-3, 728, 755-6, 771, 776, 1062, 1142, 1215, 1250-1, 1254, 1263, 1632, 1716, 1721, 1726, 1741, 1755

Crop plants, 10

Crop plants, minor, 82, 404-5, 409, 506, 576, 1363-5, 1368 - 70

Fibre plants, 63, 348, 360, 553, 557, 604, 1531-2, 1534 Fruits and forest trees, 441, 607

Grasses, forage, 1142, 1278, 1768

Leguminous forage plants, 336, 1066, 1294, 1767-8 Root crops, 521, 541, 616, 1309

Stimulants, plants producing, 391, 399, 1091, 1350

Sugar plants, 858, 1833, 1840

Vegetable crops, 476, 478, 480, 506, 593, 607, 1426, 1436, 1440, 1446-7, 1932, 1949

Genetics, general studies, 11, 17-8, 95, 133, 140, 169, 506-7, 515, 1031, 1143-5, 1194, 1476, 1487, 1489, 1607-15, 1680, p. 247, p. 365, p. 374

Geography, plant, see plant geography, and plant introduction

Germany, plant breeding and genetics, 782-3, 845, 857, 860, 880, 939, 941, 992, 1120, 1340, 1574-5, 1605, 1765, 1794, 1863, 1884

Germination, 43, 211, 611, 664, 689, 698, 720, 767, 915, 1056, 1059, 1307, 1452, 1707, 1710, 1769, 1939, 1946,

see also development Gibberella, see fungi, Pyrenomycetes Ginkgo, see softwood trees Glands, see accessory organs Gloeosporium, see fungi, Melanconiales Glomerella, see fungi, Pyrenomycetes

Glume, see flower Glycine, see bean, soya

Gnomonia, see fungi, Pyrenomycetes

Gold Coast, plant breeding and genetics, 75, 1016

Golgi apparatus, see protoplasm Goodness of fit, see statistics Gooseberry, 91, see also Ribes Gossypium, see cotton Gourds (Cucurbita), see Cucurbita

For further information on general topics, see also particular branches.

Grafting, see reproduction, vegetative, artificial. Grain, see seed, and pulses Gram, 500, 592, 1010, 1041, 1952 Gram, horse, see Dolichos Grape, see vine Graphium, see fungi, Pyrenomycetes Grasses, Agrostideae, 327, 791-2, 1284, 1774-5 Grasses, Andropogoneae, 53, 128-9, 326, 605, 617, 789-90, 1283, 1599, 1757, 1767 Grasses, Bambuseae, see grasses, minor, forage Grasses, Chlorideae, 328, 536, 617 Grasses, Festuceae, 329, 1516 Grasses, forage, 49, 154, 308-12, 317, 505, 521, 611-2, 614, 618-9, 621, 623, 693, 700, 782-6, 1020, 1120, 1122, 1128, 1141-2, 1282, 1472, 1515, 1581, 1594-5, 1598, 1600, 1701, 1765-9, p. 373, p. 374 Grasses, Hordeae, see grasses, minor, forage Grasses, minor, forage, 330, 606, 715, 764, 793, 1141–2, 1285–8, 1698, 1704, 1749, 1774, 1776 Grasses, Oryzeae, see grasses, Phalarideae and allied tribes Grasses, Phalarideae and allied tribes, 152 Grasses, Phareae, see grasses, minor, forage Green vegetables, 1938, see also vegetable crops Grossularia, see gooseberry Groundnut, 433, 605, 926-7, 1010, 1013, 1136, 1409, 1593-5, see also nuts, dessert Growth, 10, 34, 41, 56, 96, 229, 285-6, 306, 328, 339, 365, 383, 424, 470, 506, 531-2, 566, 607, 613, 616, 665, 776, 778, 805, 821, 846, 859, 887, 899, 954, 969, 973, 1003, 1010, 1013, 1020, 1068–70, 1216, 1295, 1327, 1333, 1392, 1431, 1453, 1495, 1512, 1521–3, 1663–4, 1699, 1767-8, 1772, 1830-1, p. 362, see also development Growth, abnormal, see growth, secondary Growth correlation, see growth Growth curve, see growth Growth, primary, see growth Growth rate, see growth Growth regulating substances, see hormones Growth, secondary, 979, 1309, 1426, 1708, see also growth Guaraná, see stimulants, minor Guava, see fruits, Myrtaceae Guayule, see rubber plants, minor Guiana, plant breeding and genetics, 72, 564-5 Guignardia, see fungi, Pyrenomycetes Guinea corn, see sorghum Guizotia, see oil plants Gumming in citrus fruits, see fungi, Peronosporales Gumming in sugar cane, see bacteria Gymnosperms, see softwood trees Gymnosporangium, see fungi, Uredinales HABIT, inheritance, see form, inheritance Habit, perennial, see growth Hail damage, 1417 Hairs, see accessory organs Haploidy, see polyploidy, haploidy Hardiness, see temperature, low, damage due to Hardwood trees, minor, 629 Harvesting, 1367 Hawaii, plant breeding and genetics, 365, 986 Haynaldia, see grasses, minor, forage Hazel, 1408, see also nuts, dessert Head, see flower Heat damage, see temperature, high, damage due to Heat, effect on the plant, see temperature, high, effect on the plant Height, inheritance, 713 Helianthus, see artichoke, Jerusalem, and sunflower and similar oil plants Helminthosporium, see fungi, Hyphomycetes Hemileia, see fungi, Uredinales Hemizygosis, see heterozygosis Hemlock (Tsuga), see softwood trees

Heredity, see genetics, detailed studies Heterochromatin, see nucleus, structure Heterodera, see animals, injurious Heterosis, 26, 135, 1149, see also hybridization and inbreeding Cereals, 628, 747, 752, 1141, 1150, 1210, 1239, 1248, 1507, 1588-9, 1742 Crop plants, 10 Crop plants, minor, 410, 1019, 1132 Fruits and forest trees, 446 Grasses, forage, 1277 Leguminous forage plants, 128, 798, 1599-600 Sugar plants, 373-4, 1826 Vegetable crops, 474, 500, 607-8, 975, 977-8, 980-1, 1132, 1470, 1588-9, 1601, 1931 Root crops, 806 Heterostyly, see flower Heterothallism, see sex, and hybridization Heterozygosis, 678, 1046 Hevea, see rubber (Hevea) Hexaploidy, see polyploidy, haploidy Hibernation, see growth Hibiscus, see fibre plants, Malvaceae, and okra Hicoria, see pecan Hippophae, see bush fruits, minor Hips, see bush fruits, minor Histology, see anatomy History, 1814, p. 488, p. 490 Holland, plant breeding and genetics, 1123, 1203, 1227-8, 1230, 1312, 1318, 1331, 1333, 1427, 1429, 1460, 1584–5, 1711, 1825, 1881, 1888 Holly, see hardwood trees, minor Homozygosis, see inbreeding Hops, see stimulants, plant producing, minor Hordeum, see barley, and grasses, minor, forage Hormones, 138, 667, 1142, 1179, 1579, 1650, 1660, 1722, 1888, 1914, see also biochemistry Horotely, see evolution Horse chestnut, see hardwood trees, minor Horse radish, see condiments Hull, see seed Humidity, excessive, damage due to, see temperature, high, damage due to Humulus, see stimulants, plants producing, minor Hungary, plant breeding and genetics, 1351-2 Husk, see seed Hybridization, 27, 184, 632, 1145, 1148, 1181, 1684, see also genetics, detailed studies, and pollination Cereals, 9, 16, 33, 117, 122, 128-31, 206-8, 223, 228, 232-4, 243-6, 252, 279, 283, 294, 305, 504-5, 603-5, 607, 609, 612–3, 618–9, 621–4, 628, 696, 721, 744, 749–51, 779, 1010, 1013, 1019, 1045, 1051, 1057, 1121, 1129, 1133, 1136-8, 1245-7, 1253, 1257-8, 1271, 1577, 1588-9, 1593-5, 1597-600, 1731-4, 1747-8, 1759-61, Crop plants, 521 Crop plants, minor, 1132, 1375, 1859 Fibre plants, 349, 837, 1074, 1137, 1535 Fruits and forest trees, 440, 443, 581, 610, 619, 624, 896, 924, 1102-3, 1127, 1143, 1390, 1417, 1470, 1567, 1588-9, 1594, 1876, 1915 Grasses, forage, 130, 1599 Leguminous forage plants, 16, 128, 1122, 1136, 1141, 1295 Root crops, 12, 16, 544, 808-9, 819, 1019, 1134, 1825 Stimulants, plants producing, 16, 395, 571, 618-9, 1356 Sugar plants, 372-3, 500, 853, 1086, 1815, 1841 Vegetable crops, 16, 129, 475, 604, 607, 609-10, 614-5, 617-9, 621, 623-4, 628, 966, 971, 976-7, 985-6, 990, 1001-2, 1108, 1129, 1131, 1133-4, 1136-7, 1417, 1439, 1588, 1594, 1947

Hemp, 359, 848, 1581

Hennequin, see Agave

Hemp, Manila, see fibre plants, Musaceae

Herbs, medicinal, see medicinal plants

Hemp, New Zealand, see fibre plants, Liliaceae

Hybridization, distant, 906, 1129, see also hybridization Hybridization, intergeneric, see also hybridization, distant Cereals, 154, 209, 274, 508, 714-5, 721, 764, 1019, 1141-2, 1211, 1237, 1285, 1698, 1704, 1749 Fruits and forest trees, 447, 890, 1577 Grasses, forage, 617, 715, 764, 791, 1142, 1285, 1698,

1704, 1749, 1776 Root crops, 818 Hybridization, interspecific, 170, 1151, 1620, see also

hybridization, distant Cereals, 604, 609, 722, 1706, 1709

Crop plants, 10, 633

Crop plants, minor, 97, 876

Fibre plants, 545, 838, 1145, 1802

Grasses, forage, 16, 313, 317, 319–20, 324, 534, 793, 1141, 1273, 1279, 1767, 1770, 1775

Industrial plants, minor, 417, 1383, 1551, 1866 Root crops, 12, 117, 345, 541, 609, 807, 814-7, 1019, 1314

Stimulants, plants producing, 384-7, 389, 391, 396-7, 573, 862, 864, 867, 1344-5, 1347-8, 1354, 1357, 1595, 1852, p. 254

Sugar plants, 12, 508

Vegetable crops, 9, 465, 607-8, 616, 619, 624, 961, 983. 1127-30, 1137, 1139-42, 1447, 1466, 1470, 1593-5, 1597, 1949

Hybrids, true breeding, 388, 390, 508, 1138, 1349, see also hybridization

Hybrid vigour, see heterosis

Hygroscopic movement, see movement, plant Hypogeal germination, see germination

Hypomyces, see fungi, Pyrenomycetes Hypostasis, see dominance

Hypoxylon, see fungi, Pyrenomycetes

IDIOGRAM, see nucleus, structure Ilex, see hardwood trees, minor, and maté Inbreeding, see genetics, general studies Incompatibility, see sterility

India, plant breeding and genetics, 10, 18, 34, 45-6, 48, 57, 60-5, 69-70, 77, 82-3, 107, 514, 532, 545-6, 551-2, 556, 579, 587, 592, 616, 1010-4, 1041, 1077, 1100, 1110, 1469, 1471, 1495, 1511, 1520, 1527, 1531, 1533, 1535-7, 1539, 1542, 1546-7, 1563-4, p. 369

Induced mutation, see mutation, induced

Industrial plants, minor 412

Inert regions of the chromosome, see nucleus, structure

Inflorescence, see flower

Inheritance, see genetics, detailed studies

Inheritance, maternal, see cytoplasmic inheritance

Inhibitors, see factors, simple

Insecticides, 186-8, 606, 618-9, 683-5, 1198, p. 252

Insects, 12, 16, 68, 79, 117, 122, 124, 128-9, 249-52, 294, 344-5, 404, 441, 526, 545, 551, 554, 605-6, 610, 612-3, 619-20, 625-6, 692, 701, 708, 746, 760-1, 842, 855, 1013, 1018-9, 1053, 1091-2, 1122, 1134, 1137, 1142, 1201, 1225, 1255, 1291, 1317, 1321, 1372, 1462, 1474, 1502, 1510, 1525, 1533, 1581, 1594, 1597, 1600-1, 1716, see also phytopathology

Interchange, 22, 517, 1621, 1629, 1653, see also cell division,

aberrant

Interference, see crossing over Interfertility, see sterility Intersterility, see sterility Inversion, see interchange

Ipomoea, see potato, sweet Ireland, Northern, plant breeding and genetics, 51 Irradiation, 27, 400, 636, 652, 1478, 1486, 1626

Irritability, see movement, plant

Israel, plant breeding and genetics, 98-9, 102, 422

Italy, plant breeding and genetics, 364, 1341, 1573, 1576,

1663, 1715, 1858, p. 253

JALAPA, see medicinal plants Japan, plant breeding and genetics, 253, 305 Japanese clover, see Lespedeza Japanese persimmon, see kaki Jarovization, see growth Jerusalem artichoke, see artichoke, Jerusalem Job's tears, see cereals, minor Juglans, see walnut Juniper, see softwood trees Jute, 556-9, 1495, 1534-6 Jute, China, see fibre plants, Malvaceae

KAKI, 432, 1902 Kale, 9, 16, see also cabbage Karyokinesis, see mitosis Karyology, see nucleus, general studies Karyotype, see nucleus, structure Keeping quality, see plant products, quality Kentucky blue grass, see meadow grass Kernel, see seed Kidney bean, see bean (Phaseolus) Kinetochore, see nucleus, structure Kohl rabi, 1304, see also turnip Kok saghyz, see rubber plants, minor Kola, 11

LABORATORY experiments, see technique, experimental Lactuca, see lettuce Lady's fingers, see okra Lallemantia, see oil plants Lamarckism, see adaptation Land races, see plant introduction Larch, see softwood trees Larix, see softwood trees Lateness, inheritance, see earliness, inheritance Lathyrus, see leguminous forage plants, Viceae Layering, see reproduction, vegetative, artificial Leaf, 86, 360, 404-5, 551, 616, 1071, 1309, 1350, 1436, 1458, 1741, 1768, 1805, 1843-4, see also morphology Leaf mould of tomato, see fungi, Hyphomycetes Leek, see Allium, minor species Leguminous forage plants, 154, 308-9, 505, 521, 614, 621, 782-5, 794, 1020, 1122, 1128, 1472, 1581, 1765-8 Leguminous forage plants, Hedysareae, 1120 Leguminous forage plants, Loteae, 1300 Leguminous forage plants, minor, 1600 Leguminous forage plants, Podalyriae, Genisteae, 1784 Leguminous forage plants, Trifoliae, 1785 Leguminous forage plants, Viciae, 1141-2 Lemma, see flower Length of day, see photoperiodism Length of lint, see plant products, quality Lenticels, see accessory organs Lentil, see pulses Leptosphaeria, see fungi Pyrenomycetes Lespedeza, 1297-8, 1781-2 Lethal factors, see factors, lethal Lethal genes, see factors, lethal Lettuce, 131, 470, 607, 628, 956, 971, 1132, 1134, 1603, 1939, see also salad plants Leucostoma, see fungi, Pyrenomycetes Libya, plant breeding and genetics, 1702 Life, nature of, see physiology Light, effect on the plant, 532, 1803, see also photoperiod-Ligule, see accessory organs

Linseed and other drying oils, 13, 406, 577, 604, 615, 629,

873, 875-7, 1093-4, 1325, 1860-1, see also flax

Lint quality, see plant products, quality

For further information on general topics, see also particular branches.

Lima bean, see bean, Lima Line, pure, see pure lines Linkage, see crossing over

Litchi, see nuts, dessert, minor Lodging, see wind damage Loganberry, 1019, see also Rubus Lolium, see rye grass Lonchocarpus, see insecticides Loquat, see pome fruits Lotus, see leguminous forage plants, Loteae Lucerne, see Medicago Lupin, 120, 337-8, 1120, 1122, 1299, 1577, 1581, 1595, 1769, 1783, p. 249 Lupinus, see lupin Lycopersicon, see tomato MACADAMIA, see nuts, dessert, minor Macroevolution, see evolution Macromutation, see mutation Macrophomina, see fungi, Sphaeropsidales Macrosporium, see fungi, Hyphomycetes Mahogany, see hardwood trees, minor
Maize, 290, 1019, 1346, 1505, 1746, see also cereals
Botany, 284-9, 292, 609, 754-7, 1137, 1247, 1251-5, 1588-9, 1598-600, 1739-42, p. 111, p. 489 Cytology, 284, 291, 745, 757, 1138, 1249-50, 1252, 1588–9, 1736–7, p. 489 Fungi, 291–3, 605, 611, 759, 1137, 1744–5 Genetics, 12, 14, 42, 122, 128, 282–3, 286–8, 294, 503–4, 603-5, 607, 609, 612, 618, 622-4, 745-52, 755-6, 758, 761, 1018-9, 1057, 1129, 1133, 1137-8, 1242-3, 1245-8, 1250-1, 1253-4, 1257-8, 1506-7, 1581, 1588-9, 1593-5, 1597-600, 1603, 1731-5, 1741, 1745, 1747 Insects, 294, 610, 612-3, 746, 760-1, 1137, 1255 Physiology, 753, 1250, 1738 Taxonomy, 1736, 1743 Technique, experimental 289, 751 Male sterility, see sterility
Malting quality, see plant products, quality Malus, see apple, cultivated Malvaviscus, see fibre plants, Malvaceae Mandarin, 427-9, 1874 Mangel, see beet, forage Mangifera, see mango Mango, 1900-1 Mangosteen, see fruits, minor Manihot, see cassava Manila hemp, see fibre plants, Musaceae Manioc, see cassava Manuring, 359, 433, 1136, 1723, 1845, 1934 Maple, see also sugar plants Maps, chromosome, see chromosome maps Marasmius, see fungi, Hymenomycetes Marjoram, see aromatic flowers Marrow, see Cucurbita Marrow stem kale, see kale Maté, 868 Maternal inheritance, see cyptoplasmic inheritance Matrocliny, see cytoplasmic inheritance Meadow grass, 313-4, 602, 1133, 1145, 1273-6, 1767, see also grasses, forage Mechanical forces, effect on the plant, 1349 Medicago, 16, 128-9, 131, 331-2, 537, 610, 623, 795, 1019, 1065, 1141, 1289, 1291-2, 1599-602, 1767, 1777, see also leguminous forage plants Bacteria, 131, 1292, 1601-2 Botany, 128, 795-6, 1517, 1779 Cytology, 1290 Diseases, environmental and physiological, 796, 1292 Genetics, 128, 131, 331-2, 610, 623, 628, 795-6, 1019, 1289, 1599-602 Insects, 1291 Physiology, 1291 Taxonomy, 1290

Linum, see flax, and linseed and other drying oils

Lisea, see fungi, Pyrenomycetes

Technique, experimental, 129, 1767 Virus, 1141 Medicinal plants, 85, 412-3, 880-1, 1096-8, 1376-7, 1548-9, 1862-4 Medlar, see also pome fruits Meetings, scientific, 495, 506, 1467-8, p. 245 Megaevolution, see evolution Meiosis, 108, 152, 376, 396, 400, 465, 476, 633, 655-6, 717-8, 742, 779, 862, 965, 989, 1033, 1157, 1165, 1279, 1346-7, 1485, 1706, 1864, 1911, 1952, see also cell division Melampsora, see fungi, Uredinales Melissa, see medicinal plants Melilotus, see clover, sweet Melon, 130-1, 471-2, 609, 617, 628, 956, 1019, 1127-8, 1136-7, 1432-3 Mendelian factors, see factors, simple Mendelism, detailed studies, see genetics, detailed studies Mendelism, general studies, see genetics, general studies Meria, fungi, Hyphomycetes Mexico, plant breeding and genetics, 183, 190, 452-4, 1735-6, 1420, 1713, 1744, p. 250 Microevolution, see evolution Micromutation, see mutation Microscopic technique, see technique, microscopic Microsphaeria, see fungi, Perisporiales Mildew, downy, see fungi, Peronosporales Mildew, powdery, see fungi, Perisporiales Millet, 12, 500, 774, 1017, 1269, 1511, 1577, 1753 Milo, see sorghum Mint, 1137, 1466, see also flavouring essences, plants producing Mirabilis, see medicinal plants Mitochondria, see protoplasm Mitogenetic rays, see irradiation, general studies Mitosis, 24, 151, 311, 654, 679, 965, 1427-8, 1492, 1650-1, see also cell division Modification, see variation Modifiers, see factors simple Moisture, effect on the plant, see temperature, high, damage Monosomics, see aneuploidy Morello, see cherry, cultivated Morphology, 298, 376, 443, 611, 981, 1276, 1552, 1682-3, 1715, 1871, see also botany Mosaic, see virus Mountain ash, see hardwood trees, minor Movement, hygroscopic, see movement, plant Movement of substances within the plant, see physiology, Movement, plant, 915, see also physiology, plant Movement, protoplasmic, see movement, plant Multiple allelomorphs, see allelomorphs, multiple Multiple factors, see factors, multiple Multiple genes, see factors, multiple Musa, see banana, and fibre plants, Musaceae Musk melon, see melon Mustard, see oil plants, Cruciferae Mutants, 173-4, 513, 677, 1683, see also mutation Mutation, 10, 142, 148, 159, 173-4, 286, 288, 436, 513, 677, 709, 752, 829, 997, 1010, 1150, 1155, 1160-1, 1367, 1531, 1588-9, 1631, 1683, 1805, see also variation, and cell division, aberrant Mutation, back, 675, 1679 Mutation, directed, see mutation, induced Mutation, induced, 27, 167, 636-9, 652, 1022-4, 1156-7, 1186, 1190-1, 1260-2, 1478, 1581, 1626-8, 1670, 1672-3, 1684 Mutation, reverse, see mutation, back Mutation, somatic, 607, 878, 914, 1090 Mycology, see fungi Mycosphaerella, see fungi, Pyrenomycetes Myrobalan, see plum

Medicago-continued.

Natural selection, see selection, natural Nectarine, 610, 1899, see also peach Nectria, see fungi, Pyrenomycetes Nelumbo, see starch plants, minor Nematodes, see animals, injurious Nematospora, see fungi, Saccharomycetales Nematosporangium, see fungi, Peronosporales Neurospora, see fungi, Pyrenomycetes New Zealand, plant breeding and genetics, 16, 52, 534, 1045, 1048, 1054, 1113, 1503, 1505, 1569-70 New Zealand hemp, see fibre plants, Liliaceae Nicotiana, see tobacco Nigeria, plant breeding and genetics, 11, 1111 Nigrospora, see fungi, Hyphomycetes Non-disjunction, 1238, see also cell division, aberrant Norway, plant breeding and genetics, 694, 798, 1723, 1950, p. 112 Nucleolus, see nucleus, structure Nucleus, 322, 327, 512, 646-7, 663, 1034-5, 1145, 1162, 1166, 1176, 1194, 1483, 1530, 1640, 1649, see also cell Nucleus, biochemistry, 1163, 1641, 1647 Nucleus, division, see cell division Nucleus, structure, 19, 21, 149-50, 157, 646, 648-53, 679, 1026-8, 1145, 1162, 1164-9, 1491-2, 1581, 1642, 1644-9, 1677, p. 248
Cereals, 210, 281, 716, 748, 1213, 1261 Crop plants, minor, 1097, 1547, 1860 Fibre plants, 559, 1643 Fruits and forest trees, 444, 585, 1104-5, 1142, 1561, 1921 Grasses, forage, 122, 311, 322, 327, 329–30, 1274, 1281, 1284, 1286–7, 1516, 1768, 1770 Industrial plants, minor, 1019, 1383, 1551 Leguminous forage plants, 1300, 1785 Root crops, 808-9, 819 Stimulants, plants producing, 385, 868, p. 254 Vegetable crops, 482, 963-4, 989, 1938 Number, inheritance, 405 Nutation, see movement, plant Nutmeg, see spices Nuts, dessert, 919, 1184, see also fruit crops Nuts, dessert, minor, 89 OAK, 1420, 1918 Oat grass, see Arrhenatherum Oats, 38, 40, 1019, 1236, 1503, 1723, see also cereals Bacteria, 611 Botany, 39, 609, 1019, 1726 Cytology, 280, 1142, 1724-5 Diseases, environmental and physiological, 117, 613 Fungi, 279-80, 740, 1019-20, 1138, 1142, 1472, 1601, 1724 - 7Genetics, 9, 16, 117, 275-7, 279, 607, 609, 613, 618-9, 623, 628, 696, 738-9, 1019, 1121, 1136, 1138-9, 1472, 1504, 1581, 1594, 1596, 1598, 1601, 1721, 1726-7 Insects, 1581 Physiology, 1722 Taxonomy, 278 Technique, experimental, 278 Virus, 613 Obituaries, see personalities Oceania, plant breeding and genetics, p. 370 Ochrea, see accessory organs Offset, see reproduction, vegetative, organs Oidium, see fungi, Perisporiales Oil palm, see oil plants, Palmaceae Oil plants, 120, 154, 402, 801, 873, 933, 1041, 1581 Oil plants, Cruciferae, 604, 873, 1010, 1121, 1546 Oil plants, minor, 617

Oil plants, Palmaceae, 11, 605, 1095, 1375

Oligogenes, see factors, simple

Okra, 615-6, 1444

NASTIS, see movement, plant

Omphalia, see fungi, Hymenomycetales Onion, 129, 465-7, 607-8, 615, 617, 626, 956, 961-2, 1129, 1427-9, 1597, 1600-2, 1656, 1658, 1930-4 Onobrychis, see sainfoin Ontogeny, see reproductive organs, and growth Ophiobolus, see fungi, Pyrenomycetes Opium, see poppy Opuntia, see fruits, Cactaceae Orange, 1401, see also citrus fruit Orbignya, see oil plants, Palmaceae Origanum, see aromatic flowers Ornithopus, see leguminous forage plants, Hedysareae Orobanche, see angiosperms, injurious Orthogenesis, see evolution Orthosiphon, see medicinal plants Oryza, see rice Oryzopsis, see grasses, Agrostideae Outbreeding, see hybridization Overdominance, see heterosis Oxycoccus, see cranberry

PADDY, see rice Pairing of chromosomes, see meiosis Panicum, see millet Papaver, see poppy Papaya, 90, 1414, 1474, 1594-5 Paprika, see pepper (Capsicum) Parasites, angiosperm, see angiosperms, injurious Parsnip, 956 Parthenium, see rubber plants, minor Parthenocarpy, see reproduction, asexual Parthenogenesis, see reproduction, asexual Pasmo, see fungi, Pyrenomycetes Paspalum, 325, 616, 788, 1280-1 Passiflora, see fruits, minor Pastinaca, see parsnip Pathology, see phytopathology Pattern, inheritance, see colour distribution, inheritance Pawpaw (in British Commonwealth), see papaya Pea, 491, 621, 1112-3, 1460, 1950-1, see also pulses Bacteria, 16 Botany, 489-90, 591, 1000, 1130, 1426, 1458-9 Cytology, 1457, 1462, 1601 Diseases, environmental and physiological, 125 Fungi, 506, 620, 622, 1139, 1601 Genetics, 488, 506, 602, 615, 620-2, 956, 1019, 1139, 1426, 1454-6, 1463, 1697 Insects, 1462 Technique, experimental 490, 1455 Virus, 620, 1130, 1463 Peach, 129, 424-5, 607, 610-12, 913-7, 1121, 1135, 1893-8, p. 374, see also stone fruits Peanut, see groundnut Pear, 618-9, 905, 1019, 1388, 1596, see also pome fruits Pecan, 126, 130, 628, see also nuts, dessert Penicillium, see fungi, Plectascales Peniophora, see fungi, Hymenomycetales Pennisetum, see millet Pentoploidy, see polyploidy, haploidy Pepper (Capsicum), 82, 500, 616, 872, 1128–9, 1132, 1134, 1136, 1362, 1588-9, 1595, 1857, see also condiments Pepper (Piper), see also condiments Perennial habit, see growth Peridermium, see fungi, Uredinales Perilla, see sunflower and similar oil plants Periodicity, see growth Persea, see avocado Persimmon, Japanese, see kaki Personalities, 32, 132, 205, 494, 509, 691, 890, 1007-8, 1119, 1143, 1146, 1498, 1573, 1610–12, 1872, p. 363 Peru, plant breeding and genetics, 68, 240, 414, 506, 825, 852, 1379, 1403-6, 1410-3, 1603 Petalody, see flower

Phaeocryptopus, see fungi, Perisporiales Phaseolus, see bean (Phaseolus) Phleum, see timothy Phlyctaena, see fungi, Sphaeropsidales Phoenix, see date Phomopsis, see fungi, Melanconiales Phormium, see fibre plants, Liliaceae Photoperiodism, 34, 56, 306, 328, 506, 531-2, 566, 607, 776, 778, 973, 1003, 1010, 1069-70, 1431, 1453, 1521-3, 1664, 1767-8 Phycomyces, see fungi, Mucorales Phyllosticta, see fungi, Sphaeropsidales Phylogeny, see evolution Phymatotrichum, see fungi, Hyphomycetes Physalospora, see fungi, Ascomycetes Physical factors, effect on the plant, 10, 41, 96, 229, 339. 383, 424, 665, 821, 1013, 1020, 1068, 1216, 1327, 1495, 1663, 1699, 1772 Physiological diseases, 545, 551, 607, 616, 622, 827, 1137, 1335, 1371 Physiological races, see biotypes Physiology, 147, 267, see also biology Physiology, plant 292, 443, 903, 1692, see also botany Phytogeography, see plant geography Phytohormones, see hormones Phytomonas, see bacteria Phytopathology, 105, 163, 193, 383, 521-2, 621, 669, 758, 814, 870, 959-60, 999, 1019-20, 1082, 1121, 1130, 1141-2, 1185, 1202, 1217, 1235, 1310, 1354, 1400, 1441, 1461, 1570, 1594-5, 1669, 1929, 1931, p. 250, p. 373, see also agriculture Phytophthora, see fungi, Peronosporales Picea, see softwood trees Pigeon pea, see pulses, minor Pigment, 1446, 1666 Pigment, inheritance, see colour, inheritance Pigment plants 1547, p. 490 Pimento (Capsicum), see pepper (Capsicum) Pimento (Pimenta), see spices Pine, see softwood trees Pineapple, 586 Pinus, see softwood trees Pistachio, see nuts, dessert, minor Pisum, see pea Plane, see hardwood trees, minor Plant biochemistry, see biochemistry, plant Plant diseases, see phytopathology Plant geography, 150, 414, 450-1, 757, 1168, 1184, 1438, 1649, p. 111, p. 487, see botany Plant introduction, 368, 388, 500, 519, 525, 604, 691, 844, 933, 1184, 1254, 1324, 1564, 1693-4, 1880, 1896, 1899 Plant physiology, see physiology, plant Planting, 12, 290, 487, 610-2, 1593 Plant products, quality, 174-5, 606, 685, 1490, 1674-5, p. 376 Cereals, 36-7, 43, 213-5, 253-67, 270-3, 287, 505, 527, 530, 623-4, 629, 709-10, 712, 720, 723-4, 730-3, 736, 756, 772-3, 1010, 1020, 1054, 1058-61, 1138, 1216, $1227 - 30, \ 1262, \ 1264 - 6, \ 1499 - 500, \ 1508 - 9, \ 1598 - 600, \\ 1710, \ 1717 - 9, \ 1750$ Crop plants, 690 Crop plants, minor, 402, 414, 575, 877, 883, 1098, 1325, 1373, 1378-9 Fibre plants, 65, 354, 552, 629, 846, 849, 1077, 1121, 1323, 1325, 1536 Fruits and forest trees, 129, 433, 904, 916, 927, 945, 1100, 1389, 1407, 1418-9, 1884, 1895, 1905, 1915, p. 490 Grasses, forage, 128, 790 Industrial plants, minor, 885, 1870 Leguminous forage plants, 336, 1299, 1581, 1595 Root crops, 58, 347, 619, 820, 1137, 1304, 1794-5 Stimulants, plants producing, 76, 383, 392, 399, 865, 1351-2, 1354, 1356, 1360-1 Sugar plants, 366-7, 856, 1328-9, 1819, 1833-45

Plant products, quality—continued. Vegetable crops, 109, 591, 613, 958, 962, 974, 987, 998. 1000, 1002, 1020, 1100, 1138, 1448, 1452, 1459, 1466, 1884, 1927, 1935 Plantain, see banana Plasmagenes, see cytoplasmic inheritance Plasmodiophora, see fungi, Chytridiales Plasmopara, see fungi, Peronosporales Plastids, 1665, 1832 Platanus, see hardwood trees, minor Plum, 374, 908-9, 1137, 1388, 1393, 1398, 1890-2, see also stone fruits Poa, see meadow grass Podosphaera, see fungi, Perisporiales Poisonous plants, see medicinal plants Poland, plant breeding and genetics, 1808 Polarity, see growth Polarity of the cell, see protoplasm Pollen, 390, 440, 611, 689, 810, 919, 1804 Pollination, 48, 128, 287, 362, 401, 428, 460, 486, 577, 607, 664, 743, 754, 787, 839, 900-2, 928, 980, 1095, 1293, 1298, 1385, 1449, 1470, 1488, 1540, 1600, 1767, 1779, 1881, 1887, see also reproduction, sexual Polygenes, see factors, multiple Polyploidy, haploidy, 25, 28, 150, 153, 413, 680-1, 1176, 1470, 1490, 1654-5, 1657, 1682-3, see also cell division, aberrant, hybrids, true breeding, and nucleus, structure Cereals, 154, 284, 719, 742, 765-6, 1064, 1138, 1142, 1177, 1252, 1588, 1749 Crop plants, 10, 29, 154, 688, 1175, 1581, 1691-2 Crop plants, minor, 154, 1121, 1128 Fibre plants, 154, 549, 1078, 1529-30, 1581, 1802 Fruits and forest trees, 90, 438, 443-4, 623, 898, 1387, 1410, 1416, 1422, 1470, 1562, 1598-9, 1911, 1918 Grasses, forage, 152, 154, 1749, 1767-8 Industrial plants, minor, 86, 419, 609, 1019, 1384, 1552, 1867, 1869 Leguminous forage plants, 154, 609, 803, 1290, 1300, Root crops, 117, 1306, 1598, 1792 Stimulants, plants producing, 386-7, 1348, 1358, 1856 Sugar plants, 154, 375-6, 1581, 1824, 1828-9 Vegetable crops, 107-8, 467, 475, 1127, 1466, 1656, 1658 Polyporus, see fungi, Hymenomycetales Polysomics, see aneuploidy Polyspora, see fungi, Melanconiales Pome fruits, 581, 611, 614, 891-2, 1393, 1876, 1885, see also fruit crops Popcorn, 1137, 1956, see also sweet corn Poplar, 443-4, 1567, 1919 Poppy, 873, 1359, 1581 Populus, see poplar Portugal, plant breeding and genetics, 847, 1168, 1903, 1920 Potato, 604, 615, 812-3, 828, 832-3, 1067, 1318-9, p. 112, p. 252 Animals, injurious, 59, 1797 Bacteria, 128, 168, 625-6, 1019, 1131, 1137, 1312, 1601 Botany, 56-8, 117, 506, 609, 616, 820-4, 1068-71, 1137, 1307-9, 1521-3, 1598, 1663, 1688, 1792, 1794-5 Cytology, 117, 340, 819, 823-4, 1070-1, 1306, 1470, 1521-3, 1598, 1651, 1792 Diseases, environmental and physiological, 826-7, 1319

Fungi, 12, 91, 343, 521, 541-2, 828, 1019, 1231, 1313-4, 1316, 1603

Genetics, 9, 12, 16, 54-5, 57, 117, 128, 340, 342-3, 345, 500, 521, 541, 544, 602, 609, 615-6, 620, 625-6, 812-9, 826, 829, 1010, 1019-20, 1120, 1137, 1139, 1141, 1305-6, 1309-11, 1314, 1519-20, 1577, 1581, 1597-601, 1603, 1791

Insects, 117, 128–9, 344–5, 620, 625–6, 1317, 1597, 1601 Physiology, 128, 341, 505, 1793 Taxonomy, 825, 1070–1, 1796 Potato—continued. Technique, experimental, 168, 1577 Virus, 9, 16, 521, 543-4, 616, 620, 829-31, 1019, 1139, 1688-9, 1798-800 Potato, sweet, 12, 346-7, 603, 605, 613, 615-6, 619, 834-5, 1018, 1134, 1320 Powdery mildew, see fungi, Perisporiales Prickly pear, see fruits, Cactaceae Primary growth, see growth Probability, 1148, p. 372 Probable error, see statistics Production, see yield Progene, see cytoplasmic inheritance Protandry, see flower Protoplasm, 1447, 1639, see cell structure Protoplasmic movement, see movement, plant Prunus, see apricot, cherry, cultivated, cherry, wild, nectarine, peach, and plum Pseudomonas, see bacteria Pseudoperonospora, see fungi, Peronosporales Pubescence, see accessory organs Puccinia, see fungi, Uredinales Pulses, 801, 956, 987-8, 1010, 1110, 1120, 1160-1 Pulses, minor, 15, 107-9, 492 Pumpkin, see Cucurbita Pure lines, 837, 976-7, 1047, 1681, 1748, see also inbreeding Pyrethrum, see insecticides

QUALITY of plant products, see plant products, quality Quality, baking see plant products, quality Quality, milling, see plant products, quality Quantitative factors, see factors, multiple Quantitative genes, see factors, multiple Quantitative inheritance, 864, 1434, 1475, 1479 Quercus, see oak Quince, see pome fruits

Pyrus, see apple, cultivated, and pear

Pythium, see fungi, Peronosporales

RACES, see biotypes
Racial degeneration, see viability
Racial rejuvenation, see viability
Radish, 460, 956
Ramie, 1326
Rape, see oil plants, Cruciferae
Raphanus, see radish
Rapidity of growth, see growth
Raspberry, 581, 608, 618-9, 929, 1019, 1141-2, 1598-9, see
also Rubus
Ratio, sex, see sex
Rays, ultraviolet, see ultraviolet rays
Rays, X, see X-rays
Recessiveness, see dominance
Reciprocal translocation, see interchange
Recombination, see segregation, genetic

Recissiveness, see dominance
Reciprocal translocation, see interchange
Recombination, see segregation, genetic
Red currant, 1910, see also Ribes
Red clover, see clover, red
Red pepper, see pepper (Capsicum)
Reduction division, see meiosis
Redwood, see softwood trees
Refractometer, see technique, experimental
Regeneration, see growth, secondary
Remote crossing, see hybridization, distant
Remote hybridization, see hybridization, distant
Reproduction, 417, 419, 1276, see also physiology, plant
Reproduction, asexual, 160, 314, 447, 886, 1183, 1275,
1284, 1657, 1769, 1869, 1888
Reproduction, sexual, 10, 307, 403, 532, 603, 612, 622, 776,
822, 917, 961, 996, 1010, 1145, 1293, 1384, 1581

Reproduction, vegetative, 57, 448, 464, 577, 622, 970, 1059, 1093-4, 1182, 1308, 1386, 1817, 1879

Reproduction, vegetative, organs, 743 Reproduction, vegetative, artificial, 138, 389, 410, 440, 477, 629, 667, 838, 883, 1393, 1397, 1517, 1579, 1870, Reproductive organs, 160, 406, 1344, 1553, see also botany Reserve substances, see biochemistry Resin plants, 844 Reverse mutation, see mutation, back Reversion, 1514, 1762, see also segregation, genetic Rheum, see rhubarb Rhizoctonia, see fungi, Mycelia sterilia Rhodoseptoria, see fungi, Sphaeropsidales Rhubarb, 618-9 Rhus, see oil plants Rhynchosporium, see fungi, Hyphomycetes Ribes, 931, see also bush fruits, red currant, and gooseberry Rice, 44, 304, 533, 780, 1763, see also cereals Botany, 48, 306-7, 531-2, 629, 777-9, 1013, 1064, 1512-4, 1761-2 Cytology, 779, 1064, 1764 Diseases, environmental and physiological, 616 Fungi, 616, 1013 1764 Genetics, 12, 45-8, 122, 305, 500, 603-5, 616, 779, 1010, 1013, 1015, 1063, 1513-4, 1596, 1603, 1758-62 Taxonomy, 1514, 1762 Ricinus, see castor oil plant Ripening, 404, 607, 612, 917, 1734 Robinia, see hardwood trees, minor Röntgen rays, see X-rays Root, 667, 767, 795, 800, see also morphology Root crops, 804, 1581, 1789, 1876 Root rot (Phymatotrichum) see fungi, Hyphomycetes Root rot (Phythium), see fungi, Peronosporales Root rot (Rhizoctonia), see fungi, Mycelia sterilia Root rot (Thielaviopsis), see fungi, Hyphomycetes Root rot (Xylaria), see fungi, Pyrenomycetes Rosa, see bush fruits, minor Rose, see bush fruits, minor Roselle, see fibre plants, Malvaceae Rowan, see hardwood trees, minor Rozelle, see fibre plants, Malvaceae Rubber (Hevea), 578, 605, 884, 1099, 1380-1, 1866 Rubber plants, minor, 86, 120, 130, 415-20, 579, 609, 844, 885-7, 1019, 1382-6, 1551-4, 1579, 1581, 1867-71 Rubus, 617, 931-2, 1127-8, 1141, 1415, 1470, 1908, see also bush fruits, blackberry, dewberry, loganberry, and raspberry Rumania, plant breeding and genetics, 1343 Runner bean, see bean (Phaseolus) Rust, see fungi, Uredinales Rutabaga, see swede Rye, 734, 781, 1241, see also cereals Botany, 41, 743, 1237, 1239-40, 1718, 1730 Cytology, 154, 281, 742, 1238, 1729 Diseases, environmental and physiological, 744 Genetics, 154, 602, 714, 721, 741, 744, 1237, 1239, 1577, 1581, 1728 Technique, experimental, 743 Rye grass, 16, 51-2, 324, 534-5, 1767

SACCHARUM, see sugar cane
Safflower, see sunflower and similar oil plants
Sage, see aromatic flowers
Sainfoin, 335, 799-801
Salad plants, 469, see also vegetable crops
Salix, see willow
Salvia, see aromatic flowers
Sandalwood, see pigment plants
Sanseviera, see fibre plants, Liliaceae
Santalum, see pigment plants
Scab (Venturia), see fungi, Pyrenomycetes
Scab (Actinomyces), see bacteria
Scandinavia, plant breeding and genetics, 150, 873

Scarlet runner, see bean (Phaseolus) Schisandra, see bush fruits, minor Science, applied, see applied science Scientific societies, 1426, 1534, 1945 Scientific theories, 186 Scion, see reproduction, vegetative, artificial Sclerospora, see fungi, Peronosporales Sclerostachya, see grasses, Andropogoneae Sclerotinia, see fungi, Pezizales Sclerotium, see fungi, Mycelia sterilia Scorzonera, 461-2, see also rubber plants, minor Scotland, plant breeding and genetics, 9, 55, 540 Scutellum, see seed Secale, see rye Secondary association, see nucleus, structure Secondary growth, see growth, secondary Seed, 288-9, 524, 604, 606, 609, 664, 723, 769, 877, 944, 969, 974, 997, 1130, 1253, 1359-60, 1514, 1700, 1720, 1726, 1756, 1762, see also morphology Seed, development, 446, 475, 1740 Seed treatment, 30, 35, 42, 51, 98, 100, 128, 460, 520, 533, 537-9, 553, 570, 626, 628, 737, 751, 817, 859, 950, 952, 968, 997, 1470, 1488, 1558, 1769, 1777-9, 1790, 1818, p. 112, p. 372 Seed selection, 222 Seed testing, 162, 601, 801, 840, 949, 1460, 1769 Seedlings, 482, 606, 921, 1110, 1301 Segmental interchange, see interchange Segregation, genetic, 675, 719, 747, 1032, 1148, see also genetics, detailed studies Segregation, somatic, 658 Selection, artificial, 174, 187-8, 618-9, 684, 1137, 1479, Cereals, 12, 42, 47, 130, 267, 283, 425, 500, 503, 645, 697, 737, 1017, 1121, 1272, 1705 Crop plants, 522 Crop plants, minor, 11, 128, 500, 502, 615, 1093-4, 1128, 1550 Fibre plants, 11, 13, 15-6, 64, 68, 122, 124-7, 349, 553, 614, 616, 841, 848, 1021, 1075, 1804 Fruits and forest trees, 126, 427, 586, 610, 624, 926, 928, 1409, 1558, 1880 Grasses, forage, 312, 605, 616, 619, 623-4, 789, 792, 1141-2, 1594-5, 1767 Industrial plants, minor, 418, 885, 887, 1382 Leguminous forage plants, 16, 128, 131, 333, 796 Root crops, 500, 605, 607-8, 625, 805, 834 Stimulants, plant producing, 11, 13, 78-9, 383, 398, 604, 1089, 1091, 1543-4, 1853 Sugar plants, 15, 75, 502, 605, 1017, 1083, 1140, 1842 Vegetable crops, 9, 15, 464, 468, 481, 486, 500, 592, 603, 605, 607-8, 614-5, 617, 627, 1016, 1132, 1134, 1137, 1593, 1601 Selection, natural, 22, 143, 286, 644, 747, 1046, 1154-5, 1242, 1529, 1629, 1669 Selective fertilization, see fertilization, sexual Self compatibility, see sterility Self fertility, see sterility Self incompatibility, see sterility Self pollination, see pollination, and inbreeding Self sterility, see sterility Septoria, see fungi, Sphaeropsidales Sequoia, see softwood trees Serology, 1476 Serradella, see leguminous forage plants, Hedysareae Sesame, 404-5, 1363-72, 1600 Sesamum, see sesame Sesquiploidy, see polyploidy, haploidy Setaria, see millet Sex, 26, 155, 175-6, 181, 359, 584, 672, 674, 682, 1179, 1197, 1434, 1659-60, see also physiology, and sterility Sex chromosomes, see nucleus, structure Sex, effect on inheritance, see genetics, general studies Sex differentiation, see sex

Sexual reproduction, see reproduction, sexual Shallott, see Allium, minor species Shallu, see sorghum Shape, inheritance, see form, inheritance Shattering, see shedding of parts Shea, see oil plants Shedding of parts, 39, 130, 1019, 1142, see also development Shoot, see stem Sida, see fibre plants, Malvaceae Sierra Leone, plant breeding and genetics, 44, 1015 Sinapis, see oil plants, Cruciferae Sisal, see Agave Size, inheritance, see dimensions, inheritance Smut (Tilletia), see fungi, Ustilaginales Smut (Ustilago), see fungi, Ustilaginales Snap bean, see bean (Phaseolus) Softwood trees, 442, 446-56, 588, 620, 622, 951-4, 1120, 1424-5, 1923 Soil chemistry, 927 Soja, see bean, soya Solanum, see potato, and egg plant Solidago; see rubber plants, minor Somatic mutation, see mutation, somatic Somatic, pairing, see nucleus, structure Somatic segregation, see segregation, somatic, and chime-Sorbus, see hardwood trees, minor Sorghum, 12, 128, 130, 303, 617, 623-4, 628, 775-6, 1010, 1062, 1270-2, 1474, 1598-600, 1754-7, see also grasses, Andropogoneae Sorghum, sweet, 372, 856, 1140 Soridium, see reproduction, vegetative organs Sorosporium, see fungi, Ustilaginales South Africa, plant breeding and genetics, 13, 37, 50, 97, 503, 525, 527, 560-1, 571, 577, 1017, 1044, 1079, 1091, 1093-4, 1101, 1540. South America, plant breeding and genetics, 884, 1091, 1249, 1282, 1345, 1379-80, 1733, 1865, 1878, p. 110 Soya bean, see bean, soya Spain, plant breeding and genetics, 193, 381, 393, 866, 1221 Speciation, see biotypes Sphacelotheca, see fungi, Ustilaginales Sphaerella, see fungi, Pyrenomycetes Sphaerotheca, see fungi, Perisporiales Spices, 576 Spinach, 657, 956, 1141-2, 1431 Spinacia, see spinach Spine, see accessory organs Spondylocladium, see fungi, Hyphomycetes Sporodesmium, see fungi, Hyphomycetes Sporogenesis, reproduction, sexual Sports, see mutants Spring habit, see earliness, inheritance Sprouting, see germination Spruce, see softwood trees Squash, see Cucurbita Staining, 158, 188, 662-3, 1028, 1035, 1167, 1483, 1491, 1644-5, 1648, 1662, 1677 Standing capacity, see wind damage Starch plants, see sugar plants Starch plants, minor 75 Statistics, 1-8, 110-4, 594-5, 606, 846, 1004-6, 1114-8, 1229, 1242, 1246, 1248, 1373, 1469, 1571, 1640, 1835-9, p. 245-6, p. 361, see also probability Stem, 372, 449, 912, 1076, 1536, 1790, 1818, see also morphology Stemphylium, see fungi, Hyphomycetes Sterium, see fungi, Hymenomycetales Sterility, 34, 87, 361, 429, 476, 573-4, 604, 632, 666, 779,

798, 823–4, 858, 961, 981, 1141, 1181, 1237–9, 1277–8 1294, 1300, 1349, 1373, 1396, 1458, 1464, 1470, 1547

1553, 1598, 1730, 1767-8, 1864, 1882, 1942, p. 107, see

also reproduction, sexual

Stiffness of straw, see wind damage

Stigeosporium, see fungi, Peronosporales Stigma, see flower Stimulants, plants producing, minor, 80-1, 400, 581, 869-71, 1059-60, 1130, 1360-1 Stipa, see grasses, Agrostideae Stipules, see accessory organs Stock, see reproduction, vegetative, artificial Stoma, see accessory organs Stone fruits, 88, 611, 891, 1142-3, 1889, see also fruit crops Storage, 1470 Strains, see biotypes Strawberry, 92, 581, 610-2, 618-9, 934-8, 1127-8, 1141-2. 1390, 1579, 1588-9, see also bush fruits Streaming, see movement, plant Strength of fibre, see plant products, quality Strength of straw, see wind damage Striga, see angiosperms, injurious Strophanthus, see medicinal plants Sudan, Anglo-Egyptian, plant breeding and genetics, p. 250 Sudan grass, see grasses, Andropogoneae Sugar beet, 377, 570, 860, 1087, 1823, 1846-50 Botany, 376, 857–9, 1333–4, 1824, 1828–45 Cytology, 154, 375–6, 1581, 1824, 1827–9 Diseases, environmental and physiological, 1335 Fungi, 627, 1336 Genetics, 373-4, 627, 858, 861, 1331-3, 1824-6, 1831, 1833, 1840-2 Taxonomy, 1336 Technique, experimental, 1334 Virus, 627, 861, 1337-9 see also sugar plants Sugar cane, 74, 363, 368-71, 560, 568-9, 1821-2 Bacteria, 567, 1086 Botany, 365-7, 566, 1010, 1327-9, 1539-40, 1817-9 Cytology, 1816 Diseases, environmental and physiological, 1329 Fungi, 629, 854, 1010, 1086, 1330 Genetics, 15, 72-3, 364, 508, 561-5, 615-6, 852-3, 1018, 1021, 1079-83, 1086, 1538, 1594-5, 1603, 1811-5 Insects, 855, 1013 Taxonomy, 1084 Technique, experimental, 367, 1329 Virus, 1081, 1473, 1820 see also sugar plants Sugar plants, 1217 Sumach, see tannin plants Summer squash, see Cucurbita Summer habit, see earliness, inheritance Sunflower and similar oil plants, 83-4, 407-11, 873, 878-9, 1019, 1373-4, 1599-600 Supplementary factors, see factors, multiple Supplementary genes, see factors, multiple Swede, 9, 16, 540, 607-8 Swede turnip, see swede Sweden, plant breeding and genetics, 120, 132, 154, 162, 275-6, 309, 354, 416, 418, 442, 456, 602, 697, 699, 734, 763, 804, 828, 832, 935, 946-8, 950, 952, 956, 1145, 1166, 1204-7, 1232, 1286, 1303, 1387, 1415, 1421, 1454,

minor Taro, see starch plants, minor Tau saghyz, see rubber plants, minor Taxis, see movement plants, Taxonomy, 18, 27, 161, 178, 183, 642, 1145, 1151, 1169, 1188, 1193, 1487, 1630, 1633-4, 1649, 1667-8, p. 250, p. 251, p. 371, p. 487 Cereals, 216, 278, 300, 716, 770, 1062, 1514, 1711, 1736, 1743, 1753, 1762 Crop plants, 1031 Crop plants, minor, 881, 1546, 1860, 1865 Fibre plants, 847, 1324, 1537, 1810 Fruits and forest trees, 430-1, 451-5, 918, 932, 1142, 1402-6, 1410-3, 1415, 1420-1, 1556, 1561, 1563, 1876, 1903, 1922, p. 375 Grasses, forage, 50, 53, 313, 315, 318, 320, 326-7, 329, 791, 1281–2, 1287–8, 1515, 1771, p. 374 Industrial plants, minor, 1380, 1886 Leguminous forage plants, 1290, 1781 Root crops, 808-11, 825, 1070-1, 1788-9, 1796 Stimulants, plants producing, 393, 398, 862, 1347, 1353 Sugar plants, 1084, 1088, 1336 Vegetable crops, 99, 461-2, 492, 1437-8, 1712, 1938 Taxus, see softwood trees Tea, 13, 77, 398, 604, 1089, 1541-3, 1853 Teak, see hardwood trees, minor Technique, experimental, 179, 659, 1180, 1575, 1638, 1666, Cereals, 214, 257-66, 278, 297, 300, 524, 630, 709, 724, 730, 732–3, 743, 751, 769, 1230, 1266, 1711, 1760 Crop plants, 194, 1201, 1606 Crop plants, minor, 401, 408, 1095, 1366, 1859 Fibre plants, 354, 362, 556, 1535 Fruits and forest trees, 87, 610, 899, 919, 921, 953, 1103, 1567, 1876, 1883, 1885, 1910, 1917 Grasses, forage, 311, 787 Industrial plants, minor, 418, 1386 Leguminous forage plants, 129, 1769 Root crops, 1577 Stimulants, plants producing, 383, 1356, 1361 Sugar plants, 367, 1329, 1334 Vegetable crops, 460, 487, 490, 958, 962, 980, 1108, 1455, Technique, microscopic, 23-4, 151, 156-7, 168, 289, 368, 660-1, 1163, 1661, 1868 Temperature, damage due to, 1218 Temperature, effect on the plant, 87, 653, 820, 1171-2, 1191, 1225, 1357, 1470, 1664 Temperature, high, damage due to, 611-2, 623-4, 693, 786, 845, 866, 879, 1199–200, 1329, 1374, 1947 Temperature, high, effect on the plant, 1714 Temperature, low, damage due to, 9, 117, 125, 194-5, 223, 456, 581, 608, 610-11, 613, 617, 628, 670, 710, 721, 788, 794, 796, 826, 892, 906, 917, 936, 1120–1, 1128–9, 1141-2, 1292, 1304, 1388, 1394, 1470, 1579, 1594, 1695-6, 1767, 1897-9 Teosinte, see maize Tephrosia, see insecticides Testa, see seed Tests, see designs of field experiments Tetraploidy, see polyploidy, haploidy

TANGANYIKA, Zanzibar, plant breeding and genetics,

Taraxacum, see green vegetables, and rubber plants,

78, 528, 536, 554, 1049, 1544

Tangelo, see citrus fruits

Tangerine, see mandarin

Tapioca, see cassava

Tanning plants, minor, 97

Sweet corn, 493, 593, 607, 610, 618, 623-4, 987, 1001-2, 1129, 1131, 1133, 1137, 1464-5, 1470, 1588-9, 1593-4, 1953-5
Sweet potato, see potato, sweet

1459, 1581-3, 1718, 1728, 1787, 1799, p. 253

Sweet sorghum, see sorghum, sweet
 Switzerland, plant breeding and genetics, 394, 413, 695, 1124, 1233, 1268, 1319, 1376, 1388-90, 1417-8, 1876, p. 490
 Sylviculture, see forestry

Synapsis, see meiosis
Synchytrium, see fungi, Chytridiales
Systematic botany, see taxonomy

Sweet clover, see clover, sweet

Tetrasomics, see aneuploidy

Theobroma, see cacao

Thea, see tea

Textile plants, see fibre plants

Thespia, see fibre plants, Malvaceae

Thielaviopsis, see fungi, Hyphomycetes

Thorns, see accessory organs Thyme, see aromatic flowers Tillering, see development Tilletia, see fungi, Ustilaginales Timothy, 1279, 1767, see also grasses, forage Tobacco, 378, 613, 1340-3, p. 253 Animals, injurious, 1595 Bacteria, 863, 1355 Botany, 76, 383, 387–92, 863–5, 1010, 1344, 1348–52, 1354, 1356–7 Cytology, 385-7, 396-7, 862, 1345-8, p. 254 Diseases, environmental and physiological, 866 Fungi, 16, 383, 386, 394, 607-8, 613, 618-9, 1019, 1129, 1594-5, 1851 Genetics, 16, 76, 374, 379-91, 395-7, 571, 607-8, 613, 618-9, 862-4, 867, 1010, 1019, 1129, 1618, 1344-5, 1347-50, 1354-7, 1581, 1594-5, 1852, p. 254, p. 374 Insects, 1594 Taxonomy, 393, 862, 1347, 1353 Technique, experimental, 383, 1356 Virus, 16, 386, 395-7, 618-9, 867, 1356-7, 1852 Tomato, 589, 611-2, 956, 956, 1106-7, 1128, 1568 Animals, injurious, 984, 1136, 1593 Bacteria, 613, 1442, 1598 Botany, 475-9, 979-82, 1140, 1426, 1440, 1942 Cytology, 103, 475-6, 607-8, 983, 1138, 1597 Diseases, environmental and physiological, 623, 1470 Fungi, 479, 607-8, 618-9, 624, 626, 983-5, 1127, 1129, 1136-8, 1443, 1593, 1597-8, 1600, 1943-4 Genetics, 475–6, 478, 607–8, 613–5, 618–9, 623–4, 626, 956, 975–8, 980–6, 1019, 1107–9, 1127–30, 1132, 1136-7, 1139-40, 1336, 1399, 1426, 1439-43, 1470, 1472, 1588-9, 1593-5, 1597-600 Physiology, 104, 128, 615, 624, 982, 1109, 1128, 1137, 1941 Technique, experimental, 980, 1108 Virus, 986, 1139 Tonka bean, see flavouring essences, plants producing Toria, see oil plants, Cruciferae Translocation, see interchange Trees, forest, see forestry Trees, fruit, see fruit crops Trials, see design of field experiments Trichoconis, see fungi, Hyphomycetes Trifolium, see clover Trigonella, see leguminous forage plants, Trifolieae Triploidy, see polyploidy, haploidy Tripsacum, see maize Trisomics, see aneuploidy Triticum, see wheat Tropism, see movement, plant True breeding hybrids, see hybrids, true breeding Tsuga, see softwood trees Tuber plants, see root crops Tunisia, plant breeding and genetics, 1705 Tung, see linseed and other drying oils Turkey, plant breeding and genetics, 1223-4, 1395, 1816 Turnip, 339, 602, 614, 782, 806-11, 1019, 1122, 1134, 1301-3, 1518, 1788-90, see also root crops Turpentine plants, see resin plants Twinning, see seed Typhula, see fungi, Hymenomycetales

ULEX, see leguminous forage plants, Podalyrieae, Genisteae
Ulmus, see elm
Ultraviolet rays, 168, 173, 1186-7, 1670, 1673, 1823
Unfruitfulness, see sterility
Uncinula, see fungi, Perisporiales
Uruguay, plant breeding and genetics, 705
Urena, see fibre plants, Malvaceae

Urocystis, see fungi, Ustilaginales Uromyces, see fungi, Uredinales USA, plant breeding and genetics, 106, 173, 184, 188-9 230, 232, 264, 277, 280, 283, 287, 290, 293-4, 296 298-9, 301-3, 310, 312, 323, 325, 328, 330-2, 343, 347, 353, 356, 367, 372, 375, 382, 396, 419-20, 432-3 436, 440, 445, 451, 460, 467, 470, 472, 478, 483, 485 487, 683, 690, 701, 703, 745, 757, 786, 792, 796, 803 812, 830, 835–6, 861, 874, 915, 918, 922–3, 928, 930 932, 945, 955, 957, 960, 978, 991, 993-5, 997, 999, 1001, 1125-6, 1247, 1267, 1270-2, 1280, 1287, 1289 1296, 1299, 1305, 1310, 1323, 1377, 1382, 1409, 1438 1450, 1461, 1585-6, 1750, 1755-6, 1764, 1766-8, 1797, 1826, 1877, 1890-1, 1894, 1904-7, 1926, 1933-4, 1947, 1951, p. 109, p. 363, p. 372, p. 490 Alabama, 124-7, 1445 Alaska, 1018 Arkansas, 1596, 1807 California, 358, 813, 1335, 1385, 1432, 1878-80, 1909 1930, p. 487 Colorado, 129, 203, 618, 626, 1003, 1601, 1931, 1940 Connecticut, 1587-9 Delaware, 611–2, 693, 917 Florida, 746, 984, 1140, 1594–5, 1784, 1900-2, 1924 Georgia, 914, 1134, 1136, 1281, 1321, 1592-3, 1782 Idaho, 696, 789, 896, 1139-40 Illinois, 773, 894, 905, 920, 1202, 1226, 1257, 1859 Indiana, 708–10, 1137, 1235, 1398, 1433, 1451 Iowa, 739, 1258, 1362, 1727, 1956 Kansas, 201, 207-8, 212, 219-20, 222, 245, 247, 249-50, 252, 255, 265, 272, 279, 287, 1208, 1724-5, 1746 Kentucky, 758, 900, 1852 Louisiana, 364, 366, 369-70, 615-6, 1328, 1444, 1812-3, 1815, 1819, 1821-2, 1954 Maine, 340, 1311, 1793, 1800 Maryland, 196, 221, 403, 700, 833, 943, 1589-92, 1757, 1948 Massachusetts, 607-8, 893, 909, 911, 1129 Minnesota, 198-200, 206, 218, 224-5, 231, 233, 235-8, 241, 244, 248, 254, 256-63, 269-70, 889, 895, 904, 936, 940, 1703, 1734 Mississippi, 351-2, 363, 614, 856, 1322 Missouri, 271, 749-50, 759, 761, 1137-8 Montana, 223, 234, 686, 937-8 Nebraska, 128, 246, 411, 1291, 1598-600 Nevada, 455 New Hampshire, 1127-8, 1236, 1443 New Jersey, 425, 491, 610, 795, 841, 913, 925, 1893, 1895 - 9New Mexico, 627, 843, 1602 New York, 439, 609, 871, 924, 944, 971, 1130-1, 1314, 1408, 1430, 1452, North Carolina, 613, 788, 1134, 1442 North Dakota, 202, 273, 987, 1209, 1229, 1747, 1774, 1871 Ohio, 197, 214-5, 229, 251, 266-7, 1597, 1929 Oklahoma, 1754 Oregon, 929 Pennsylvania, 1132, 1588 Rhode Island, 123 South Carolina, 1135 South Dakota, 623-4, 691, 790, 793, 892, 1925 Tennessee, 618-9, 707, 1908 Texas, 209, 217, 228, 617, 985, 1283, 1803 Utah, 130-1, 628, p. 371, p. 375 Vermont, 687 Virginia, 727, 926, 1391, 1886, 1913 Washington, 1141-2, 1292, 1937 West Virginia, 423, 1133, 1259, p. 374 Wisconsin, 620-2, 738, 827, 865, 1463, 1595, 1738 Wyoming, 625

USSR, plant breeding and genetics, 17, 115, 118-9, 304, 308, 333-5, 337, 378, 400, 407-8, 412, 457, 464, 494, 596-600, 702, 706, 721, 725, 736-7, 741, 744, 764, 774-5, 784, 799, 801, 805, 814-6, 821, 826, 844, 848, 859, 888, 906–7, 910, 931, 933–4, 968, 975, 1119, 1143–4, 1184, 1199–200, 1215, 1218, 1290, 1308, 1374, 1426, 1435, 1572, 1577-80, 1608-9, 1617, 1651, 1693-4, 1696-8, 1704, 1749, 1772, 1780, 1790, 1792, 1802, 1804, 1811, 1861-2, 1867, 1870, 1872-5, 1912, 1935, p. 365

Vaccinium, 608, 610, 1128, 1133, 1141-2, see also bush fruits, and cranberry

Vacuole, see protoplasm Valeriana, see medicinal plants Valsa, see fungi, Pyrenomycetes

Vanilla, 401, see also flavouring essences, plants producing

Variance, analysis of, see statistics Variation, 140, 1581, 1624

Variation under natural conditions, 20, 55, 172, 191, 466, 518, 676, 1150, 1154, 1625, 1657, 1735, 1865, 1871

Variegation, inheritance, see colour distribution, inheritance

Vegetable crops, 421, 626, 628, 955, 1924-5, p. 112, p. 375, see also agriculture

Botany, 958, 1100, 1884, 1927 Genetics, 457-8, 504-5, 956-7, 1016, 1417, 1426, 1875, 1926

Technique, experimental, 958 Vegetable marrow, see Cucurbita Vegetative organs, development, 609

Vegetative reproduction, see reproduction, vegetative, and reproduction

Venturia, see fungi, Pyrenomycetes Vernalization, see growth

Verticillium, see fungi, Hyphomycetes

Vetch, 124, 334, 1296, 1581, see also leguminous forage plants

Viability, 1588-9

Vicia, see vetch, and bean (Vicia)

Vicinism, see pollination Vigna, see Dolichos

Vigour, hybrid, see heterosis Vine, 1140, 1912, see also fruit crops

Botany, 440, 943-5, 1389, 1418-9, 1914-5, p. 490

Cytology, 942

Diseases, environmental and physiological, 892, 1417 Fungi, 1131

Genetics, 439-41, 892, 939-41, 944, 1120, 1390, 1417, 1419, 1579, 1876, 1913, 1915

Insects, 441

Physiology, 1914 Virus, 9, 12, 16, 75, 83, 124, 185–6, 358, 386, 395–7, 484, 502, 513, 521, 543, 572, 581, 605, 607, 609, 613-4, 616, 618-20, 627, 635, 708-9, 829-31, 835, 861, 867, 937-8, 986, 1016-7, 1019, 1037, 1059, 1081, 1091-2, 1129-31, 1134, 1139-42, 1226, 1337-9, 1356-7, 1414, 1423, 1463, 1470, 1473, 1486, 1524, 1589, 1655, 1687–9, 1767, 1798–800, 1820, 1852, 1933–4, 1937, 1948, p. 252, see also phytopathology

Vitalism, see physiology Vitamins, 104, 123, 128, 130, 180, 341, 437, 505, 593, 613, 615, 623-4, 627-8, 659, 753, 982, 1109, 1128, 1131, 1133, 1135, 1137, 1190-1, 1250, 1291, 1320, 1470, 1133, 1135, 1137, 1190-1, 1250, 1291, 1320, 1470, 1472, 1499, 1594, 1738, 1793, 1857, 1901, 1936, 1941, see also biochemistry

Viticulture, see vine

Vitis, see vine

Vitreousness of grain, see plant products, quality

Vivipary, see germination

Voandzeia, see leguminous forage plants, minor

WALES, plant breeding and genetics, 40, 538 Walnut, 920-2, see also nuts, dessert

Water balance, effect on the plant, 857, 863 Water melon, 615, 618-9, 1127-8, 1134, 1136-7, 1434-5, 1593 - 5

West Indies, plant breeding and genetics, 14-5, 67, 74, 346, 386, 401, 468, 481, 484, 493, 562-3, 568-9, 606, 849, 853, 1002, 1021, 1072, 1081, 1091, 1326, 1329,

1407, 1473, 1545, 1880, 1946, 1953, p. 373 Wheat, 35, 217–20, 222, 268–9, 525, 528, 703–5, 735, 1004–5, 1017, 1043, 1051, 1053, 1055–6, 1121–2,

1228, 1231, 1233, 1702, see also cereals Animals, injurious, 604

Botany, 34, 36–7, 209, 211–5, 229, 253–67, 270–4, 524, 527, 665, 709–10, 712, 720–4, 730–3, 736, 1010, 1020, 1054, 1056, 1138, 1215–6, 1225, 1227–30, 1237, 1499-500, 1707-10, 1714-5, 1717-9

Cytology, 154, 210, 227, 229, 235-41, 645, 715-9, 726, 729, 1049–50, 1124, 1137, 1142, 1211, 1213–4, 1219–20,

1501, 1706, p. 438

Diseases, environmental and physiological, 117, 223, 710, 721, 1218

Fungi, 12, 36, 131, 224-5, 227-48, 287, 604, 618-9, 624, 628, 696, 708, 725-9, 1010, 1019, 1048-52, 1136-7, 1139, 1142, 1219-24, 1501, 1601, 1713-5

Genetics, 16, 32-3, 117, 128, 131, 154, 196-9, 201-9, 212, 221, 223, 225, 228, 230-4, 241-6, 251-2, 256, 267, 274, 287, 505, 526, 603-4, 609, 611-3, 618-9, 621-4, 628, 630, 645, 665, 696, 704, 706–15, 719, 721–2, 725, 728, 731, 1010, 1019–20, 1044–7, 1050–1, 1053, 1120–1, 1136-9, 1141-2, 1204-7, 1209-12, 1215, 1217-8, 1220, 1226, 1237, 1285, 1472, 1474, 1496-8, 1577, 1581, 1597-9, 1601, 1603, 1703-9, 1716, 1719, 1721

Insects, 16, 249-52, 526, 708, 1019, 1053, 1137, 1225, 1502, 1716

Physiology, 720, 1499 Taxonomy, 216, 716, 1711–2

Technique, experimental, 214, 257-67, 524, 630, 709, 724, 730, 732-3, 1230, 1711

Virus, 708-9, 1226

White clover, see clover, white Whortleberry, see Vaccinium

Wide crossing, see hybridization, distant Wide hybridization, see hybridization, distant Width, inheritance, see dimensions, inheritance Willow, 362, 1145, 1173, 1643, 1810

Wilt (Fusarium), see fungi, Hyphomycetes Wind damage, 609, 619, 841, 1268

Winter killing, see temperature, low, damage due to

Winter melon, see melon Winter habit, see earliness, inheritance

Winter squash, see Cucurbita Witch weed, see angiosperms, injurious

XANTHOSOMA, see starch plants, minor X chromosomes, see nucleus, structure X-rays, 167, 545, 637, 709, 1022, 1029-30, 1157, 1174, 1186-7, 1261, 1428, 1617, 1637, 1670, 1721 Xylaria, see fungi, Pyrenomycetes

YAM, 605, 1016 Y chromosomes, see nucleus, structure Yeast, see fungi, Saccharomycetales Yellows (Fusarium), see fungi, Hyphomycetes Yew, see softwood trees Yield, 36, 129, 172, 212, 365, 487, 699, 780, 860, 1216, 1240, 1446, 1455, p. 111 Ylang ylang, see oil plants, minor Youngberry, see loganberry Yucca, see Liliaceae, fibre plants

ZEA, see maize, popcorn, and sweet corn



THE COMMONWEALTH BUREAU OF PLANT BREEDING AND GENETICS. School of Agriculture, Cambridge, England.

Consultant Director:

PROF. SIR FRANK L. ENGLEDOW, C.M.G., M.A., F.R.S., Drapers' Professor of Agriculture.

Director: P. S. Hudson, Ph.D.

Assistant Director: R. H. RICHENS, M.A.

Assistants: MISS M. L. C. WILSON, B.A. MISS T. ASHTON, M.A. MRS. M. THOMAS, B.Sc. B. HEISELER,

Publications:

PLANT BREEDING ABSTRACTS.

Issued quarterly. Subscription 35/-, with Subject Index. (Subscriptions sent direct from within the British Commonwealth of Nations are subject to a reduction of 20%.) Single copies 10/6 each. Drafts should be made out in sterling currency.

Copies of "Plant Breeding Abstracts" printed on one side of the paper can be supplied, for the convenience of readers wishing to cut up and file the references, at an additional cost of 7/per volume.

Important Note.—Every effort is made to make Plant Breeding Abstracts as complete as possible and its notices of papers referring to plant breeding or the genetics of crop plants as prompt as possible. To aid in this, authors are invited to send to the Director copies of their papers immediately on publication.

Other Publications:

TECHNICAL COMMUNICATIONS	s.	d.	TECHNICAL COMMUNICATIONS—continued.	s.	d.
Joint Publication No. 1. Vernalization and Phasic Development of Plants		ō	Joint Publication No. 8. Forest Tree Breeding and Genetics, by R. H.		
An Outline of Cytological Technique for Plant Breeders		6	Richens The New Genetics in the Soviet Union,		
The Action and Use of Colchicine in the Production of Polyploid Plants, by			by P. S. Hudson and R. H. Richens The Use of Heterosis in the Production of Agricultural and Horticultural Crops, by	0	0
J. L. Fyfe		0	Miss T. Ashton	3	0
Field Trials: their Lay-out and Statistical Analysis, by John Wishart		6	Technique of Breeding for Drought Resistance in Crops, by Miss T. Ashton	2	6
Joint Publication No. 3. The Breeding of Herbage Plants in Scandinavia and			Field Trials II: The Analysis of Covariance, by J. Wishart	3	6
Finland	4	0	INDEXES		
New and Promising Varieties recently described in the Literature (Issues 3,			Subject Index to Vols I to V of Plant Breeding Abstracts	2	6
4 and 6) each Issue No. 7	1	0	Subject Index to Vols VI to VIII of Plant Breeding Abstracts	2	6
Joint Publication No. 5. The Production		0	Subject Index to Vols IX, X, XI, XII, XIII, XIV and XV of Plant Breeding		
of Seed of Root Crops and Vegetables		0	Abstracts each	2	6
Photoperiodism in the Potato, by C. M. Driver and J. G. Hawkes	2	6	BIBLIOGRAPHICAL MONOGRAPHS Bibliography on Interspecific and Inter-		
Potato Collecting Expeditions in Mexico and South America. II. Systematic			generic Hybridization in Relation to Plant Breeding	2	0
Classification of the Collections, by J. G.			Rye Breeding Bibliography	I	
Hawkes	7	6	Tobacco Breeding Bibliography		0
Cultivation and Breeding of Russian Rub- ber-bearing Plants	2	6	Bibliography of Baking Quality Tests, Supplement		6

Subscriptions to any of the above Publications should be sent to Commonwealth Agricultural Bureaux, Central Sales Branch, Penglais, Aberystwyth, Wales.

Loss in Transit.—Claims for numbers of Plant Breeding Abstracts lost in transit will only be considered if notice of such loss is received within three months of the date of posting.

No.

COMMONWEALTH AGRICULTURAL BUREAUX

JOURNALS PUBLISHED BY BUREAUX ON RELATED SUBJECTS

	Published by the
Herbage Abstracts	Commonwealth Bureau of Pastures and Field Crops, Aberystwytl
Field Crop Abstracts	Commonwealth Bureau of Pastures and Field Crops, Aberystwyth
Horticultural Abstracts	Commonwealth Bureau of Horticulture and Plantation Crop
	East Malling.

Commonwealth Bureau of Soil Science, Harpenden. Soils and Fertilizers

Forestry Abstracts

Commonwealth Forestry Bureau, Oxford.

Annual subscription to the first four journals is 35s. (with a special reduction of 20 per cent for orders received direct from subscribers in Great Britain, the Dominions and Colonies); annual subscription to Forestry Abstracts is 45s. (with same reduction of 20 per cent).

RECENT AND FORTHCOMING OCCASIONAL PUBLICATIONS ON AGRICULTURE AND FORESTRY

C.A.B. JOINT PUBLICATIONS

The Use and Misuse of Shrubs and Trees as Fodder. Commonwealth

10.	Bureaux of Pastures and Field Crops and Animal Nutrition and Common-					
	wealth Forestry Bureau. 1947	9s.	0d.			
11.						
	Sciences 1939-45. 1946		0d.			
12. 13.	Phenothiazine 1942–46: A review and bibliography. 1948	4s. 15s.				
13.	The establishment of vegetation on industrial waste land. By R. O.	105.	ou.			
11.		10s.	0d.			
	TECHNICAL COMMUNICATIONS, ETC.					
Comn	nonwealth Bureau of Pastures and Field Crops, Aberystwyth.					
38.	Advances in Grassland Husbandry and Fodder Production. Second					
00	Symposium. 1947	6s.	0d.			
39.	Five hundred varieties of herbage and fodder crops. (A list of varietal names, including information supplied by specialists on the					
	characteristics and use of the crops). 1948	15s.	60			
40.	The production and utilization of Silage. A survey of world Literature	100.	ou.			
	in Abstracts	10s.	0d:			
Comn	nonwealth Bureau of Horticulture and Plantation Crops, East Malling.					
20.	Growth substances and their practical importance in horticulture. By					
	H. L. Pearse. 1948	12s.	6d.			
21.	Recent Advances in Fruit Juice Production. By V. L. S. Charley and	75-	0.1			
	others					
	nonwealth Bureau of Soil Science, Harpenden.	2s.	Od.			
45.	The practice of soil conservation in the British Colonial Empire. By Sir	10s.	0.1			
	Harold A. Tempany. 1949	TUS.	va.			
	1948	35s.	Od.			
46.	1948 Proceedings of the First Commonwealth Conference on Tropical and Sub-					
	Tropical Soils	25s.	0d.			
	nonwealth Mycological Institute, Kew.					
24.	The plant diseases and fungi recorded from Mauritius. By P. O. Wiehe.					
95	1948	5s.	Od.			
25.	Fungi of Barbados and the Windward Islands. By R. E. D. Baker and W. T. Dale. 1948	20	0.1			
All correspondence regarding subscriptions to current and back volumes of abstracting journals						
al	nd the purchase of Occasional Publications, Technical Communications, Bullet	tins,	Riplio-			

Penglais, ABERYSTWYTH, Great Britain.

graphies, etc., to be sent to-Commonwealth Agricultural Bureaux, Central Sales Branch,